



Inductive Sensors 3-Wire DC Highest S_n available

Standard Class

The XECRO Standard Sensing Range Class covers all common industry diameters including cuboid with 5x5 mm² and 8x8 mm² cross section respectively. The Standard Class of sensors represents the basic sensing distances of each size. The inductive sensors in the Standard Class are the perfect choice for cost-sensitive applications where longer sensing distances are not required. Even the StandardClass sensors, which are rated to be used between -20...+70 °C (-3...+159 °F) come with a protection class of IP67 and are ideal for general purpose applications.

Standard-Klasse

Die Standard-Schaltabstandklasse von XECRO deckt alle üblichen Durchmesser einschließlich quaderförmige mit 5x5 mm² und 8x8 mm² Querschnitt ab und stellt die Basis-Schaltabstände einer jeden Abmessung dar. Die induktiven Sensoren der Standard-Klasse sind die erste Wahl bei preisempfindlichen Anwendungen, bei denen hohe Schaltabstände sich nicht lohnen. Auch wenn sie die Grundlage bilden, sind alle Sensoren für den Einsatz bei -20...+70 °C (-3...+159 °F) spezifiziert und mit einer Schutzart IP67 ideal für allgemeine Anwendungen.

Increased Class - Extended Class

If mechanical conditions require longer sensing distances, then the Increased and Extended Sensing Range Class offer up to triple sensing distances than the Standard Sensing Range Class. And thus, the available safe distance to the electronics is extended reducing the risk of mechanical damage of the sensors. The electronic circuits for these classes fit into the same housing with the same dimensions as those of the Standard Class.

Erhöht-Klasse · Erweitert-Klasse

Wenn mechanische Bedingungen höhere Schaltabstände erfordern, dann bieten die Schaltabstandklassen Erhöht oder Erweitert bis zu dreifachen Schaltabstände als die Standard-Schaltabstandklasse. Dadurch erhöht sich der zur verfügbare Sicherheitsabstand zur Elektronik, was die Gefahr mechanischer Beschädigung des Sensors mindert. Schaltungen aus diesen Klasse werden in den gleichgroßen Gehäusen wie in der Standard-Klasse verbaut.

Advanced Class

In some environments, extremely large sensing distances are essential for proper operation. Sensors from the outstanding Advanced Class offer the absolute best sensing distances of their type. XECRO builds semi-flush sensors as e.g.

- ▶ M8 with 4mm sensing distance,
- ▶ M12 with 8mm sensing distance and
- ▶ M18 with 15mm sensing distance.

The non-flush sensors in M30 achieve 50 mm sensing distance which is 25% more than our best competitors do within the same housing diameter.

Hochleistung-Klasse

In einigen Umgebungen sind größte Schaltabstände für einen einwandfreien Betrieb entscheidend. Sensoren der herausragenden Hochleistung-Klasse bieten die absolut höchsten Schaltabstände ihrer Art. XECRO fertigt quasi-bündige Sensoren wie z. B.

- ▶ M8 mit 4 mm Schaltabstand,
- ▶ M12 mit 8 mm Schaltabstand und
- ▶ M18 mit 15 mm Schaltabstand.

Die nichtbündigen Sensoren M30 mit 50 mm Schaltabstand erreichen 25 % mehr als unsere besten Mitbewerber in der gleichen Bauform.

Inductive Proximity Switch

3-Wire DC

Induktive Näherungsschalter

3-Leiter DC

flush
bündig
Ø 6.5 mm | 1 mm



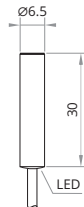
flush
bündig
Ø 6.5 mm | 1 mm



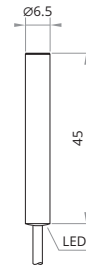
flush
bündig
Ø 6.5 mm | 1 mm



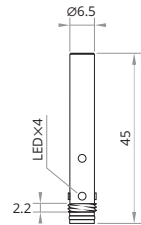
standard
Standard



standard
Standard



standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 1 mm | 1 mm | 1 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 2000 Hz | 2000 Hz | 2000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | PVC, ultra-flex | conn. M8 Stecker M8 |
| Article code PNP, NO | ┌— | IPSD6-S1PO30-A2P | IPSD6-S1PO45-A2P | IPSD6-S1PO45-A8 |
| Article code PNP, NC | └┐ | IPSD6-S1PC30-A2P | IPSD6-S1PC45-A2P | IPSD6-S1PC45-A8 |
| Article code PNP, NO+NC | ┌—+└┐ | | | |
| Article code NPN, NO | ┌— | IPSD6-S1NO30-A2P | IPSD6-S1NO45-A2P | IPSD6-S1NO45-A8 |
| Article code NPN, NC | └┐ | IPSD6-S1NC30-A2P | IPSD6-S1NC45-A2P | IPSD6-S1NC45-A8 |
| Article code NPN, NO+NC | ┌—+└┐ | | | |

flush
bündig
Ø 6.5 mm | 1 mm



flush
bündig
Ø 6.5 mm | 1 mm



non-flush
nicht bündig
Ø 6.5 mm | 2 mm



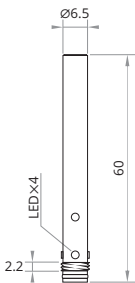
non-flush
nicht bündig
Ø 6.5 mm | 2 mm



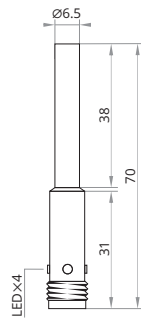
non-flush
nicht bündig
Ø 6.5 mm | 2 mm



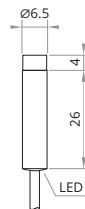
standard
Standard



standard
Standard



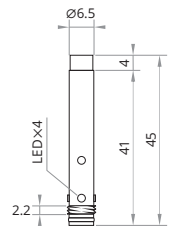
standard
Standard



standard
Standard



standard
Standard



| 1 mm | | 1 mm | | 2 mm | | 2 mm | | 2 mm | |
|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 2000 Hz | | 2000 Hz | | 2000 Hz | | 2000 Hz | | 2000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| conn. M8 | Stecker M8 | conn. M12 | Stecker M12 | PVC, ultra-flex | | PVC, ultra-flex | | conn. M8 | Stecker M8 |
| IPSD6-S1PO60-A8 | | IPSD6-S1PO70-A12 | | IPSD6-N2PO30-A2P | | IPSD6-N2PO45-A2P | | IPSD6-N2PO45-A8 | |
| IPSD6-S1PC60-A8 | | IPSD6-S1PC70-A12 | | IPSD6-N2PC30-A2P | | IPSD6-N2PC45-A2P | | IPSD6-N2PC45-A8 | |
| IPSD6-S1NO60-A8 | | IPSD6-S1NO70-A12 | | IPSD6-N2NO30-A2P | | IPSD6-N2NO45-A2P | | IPSD6-N2NO45-A8 | |
| IPSD6-S1NC60-A8 | | IPSD6-S1NC70-A12 | | IPSD6-N2NC30-A2P | | IPSD6-N2NC45-A2P | | IPSD6-N2NC45-A8 | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

non-flush
nicht bündig
Ø 6.5 mm | 2 mm



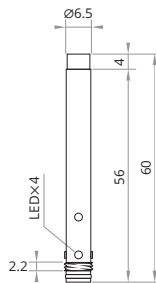
non-flush
nicht bündig
Ø 6.5 mm | 2 mm



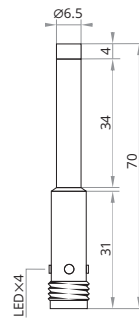
flush
bündig
Ø 6.5 mm | 2 mm



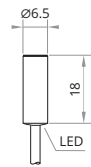
standard
Standard



standard
Standard



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 2 mm | 2 mm | 2 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 2000 Hz | 2000 Hz | 2000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | conn. M8 Stecker M8 | conn. M12 Stecker M12 | PVC, ultra-flex |
| Article code PNP, NO | ┌─ | IPSD6-N2PO60-A8 | IPSD6-N2PO70-A12 | IPSD6-S2PO18-A2P |
| Article code PNP, NC | └─ | IPSD6-N2PC60-A8 | IPSD6-N2PC70-A12 | IPSD6-S2PC18-A2P |
| Article code PNP, NO+NC | ┌─+ └─ | | | |
| Article code NPN, NO | ┌─ | IPSD6-N2NO60-A8 | IPSD6-N2NO70-A12 | IPSD6-S2NO18-A2P |
| Article code NPN, NC | └─ | IPSD6-N2NC60-A8 | IPSD6-N2NC70-A12 | IPSD6-S2NC18-A2P |
| Article code NPN, NO+NC | ┌─+ └─ | | | |

flush
bündig
Ø 6.5 mm | 2 mm



flush
bündig
Ø 6.5 mm | 2 mm



flush
bündig
Ø 6.5 mm | 2 mm



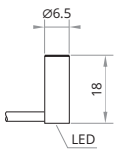
flush
bündig
Ø 6.5 mm | 2 mm



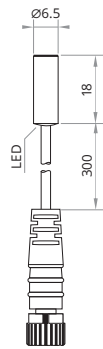
flush
bündig
Ø 6.5 mm | 2 mm



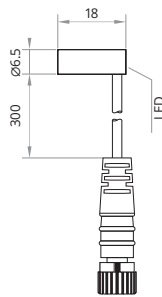
increased
erhöht



increased
erhöht



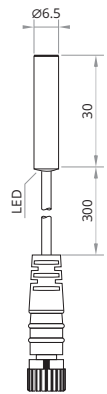
increased
erhöht



increased
erhöht



increased
erhöht



| 2 mm | | 2 mm | | 2 mm | | 2 mm | | 2 mm | |
|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 2000 Hz | | 2000 Hz | | 2000 Hz | | 2000 Hz | | 2000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| PVC, ultra-flex | | PUR, 300 mm, M8 | | PUR, 300 mm, M8 | | PVC, ultra-flex | | PUR, 300 mm, M8 | |
| IPSD6-S2PO18-RA2P | | IPSD6-S2PO18-3U8 | | IPSD6-S2PO18-R3U8 | | IPSD6-S2PO30-A2P | | IPSD6-S2PO30-3U8 | |
| IPSD6-S2PC18-RA2P | | IPSD6-S2PC18-3U8 | | IPSD6-S2PC18-R3U8 | | IPSD6-S2PC30-A2P | | IPSD6-S2PC30-3U8 | |
| IPSD6-S2NO18-RA2P | | IPSD6-S2NO18-3U8 | | IPSD6-S2NO18-R3U8 | | IPSD6-S2NO30-A2P | | IPSD6-S2NO30-3U8 | |
| IPSD6-S2NC18-RA2P | | IPSD6-S2NC18-3U8 | | IPSD6-S2NC18-R3U8 | | IPSD6-S2NC30-A2P | | IPSD6-S2NC30-3U8 | |

Inductive Proximity Switch

3-Wire DC

Induktive Näherungsschalter

3-Leiter DC

flush
bündig
Ø 6.5 mm | 2 mm



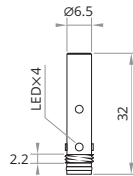
flush
bündig
Ø 6.5 mm | 2 mm



flush
bündig
Ø 6.5 mm | 2 mm



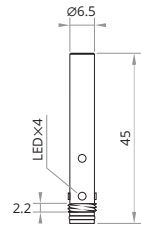
increased
erhöht



increased
erhöht



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 2 mm | | 2 mm | | 2 mm | |
|-----------------------------|------------------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Current consumption | Stromverbrauch | <8 mA | | <8 mA | | <8 mA | |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | | 200 mA | | 200 mA | |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| Switching frequency | Schaltfrequenz | 2000 Hz | | 2000 Hz | | 2000 Hz | |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| Operating temperature | Betriebstemperatur | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| Protection class | Schutzklasse | IP67 | | IP67 | | IP67 | |
| Sensing face material | Sensorflächenwerkstoff | PBT | | PBT | | PBT | |
| Housing material | Gehäusewerkstoff | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in | integriert | built-in | integriert |
| Connection | Anschluss | conn. M8 | Stecker M8 | PVC, ultra-flex | | conn. M8 | Stecker M8 |
| Article code PNP, NO | ┌─ | IPSD6-S2PO32-A8 | | IPSD6-S2PO45-A2P | | IPSD6-S2PO45-A8 | |
| Article code PNP, NC | └─ | IPSD6-S2PC32-A8 | | IPSD6-S2PC45-A2P | | IPSD6-S2PC45-A8 | |
| Article code PNP, NO+NC | ┌─+ └─ | | | | | | |
| Article code NPN, NO | ┌─ | IPSD6-S2NO32-A8 | | IPSD6-S2NO45-A2P | | IPSD6-S2NO45-A8 | |
| Article code NPN, NC | └─ | IPSD6-S2NC32-A8 | | IPSD6-S2NC45-A2P | | IPSD6-S2NC45-A8 | |
| Article code NPN, NO+NC | ┌─+ └─ | | | | | | |

flush
bündig
Ø 6.5 mm | 2 mm



flush
bündig
Ø 6.5 mm | 2 mm



semi-flush
quasi-bündig
Ø 6.5 mm | 3 mm



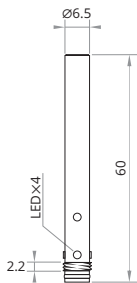
semi-flush
quasi-bündig
Ø 6.5 mm | 3 mm



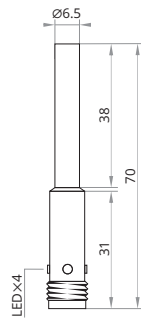
semi-flush
quasi-bündig
Ø 6.5 mm | 3 mm



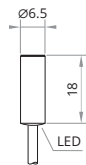
increased
erhöht



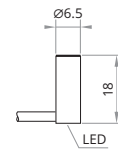
increased
erhöht



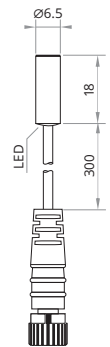
extended
erweitert



extended
erweitert



extended
erweitert



| 2 mm | | 2 mm | | 3 mm | | 3 mm | | 3 mm | |
|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 2000 Hz | | 2000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| conn. M8 | Stecker M8 | conn. M12 | Stecker M12 | PVC, ultra-flex | | PVC, ultra-flex | | PUR, 300 mm, M8 | |
| IPSD6-S2PO60-A8 | | IPSD6-S2PO70-A12 | | IPSD6-S3PO18-A2P | | IPSD6-S3PO18-RA2P | | IPSD6-S3PO18-3U8 | |
| IPSD6-S2PC60-A8 | | IPSD6-S2PC70-A12 | | IPSD6-S3PC18-A2P | | IPSD6-S3PC18-RA2P | | IPSD6-S3PC18-3U8 | |
| IPSD6-S2NO60-A8 | | IPSD6-S2NO70-A12 | | IPSD6-S3NO18-A2P | | IPSD6-S3NO18-RA2P | | IPSD6-S3NO18-3U8 | |
| IPSD6-S2NC60-A8 | | IPSD6-S2NC70-A12 | | IPSD6-S3NC18-A2P | | IPSD6-S3NC18-RA2P | | IPSD6-S3NC18-3U8 | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

semi-flush
quasi-bündig
Ø 6.5 mm | 3 mm



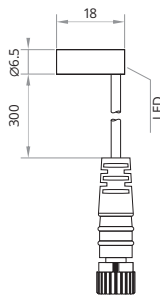
semi-flush
quasi-bündig
Ø 6.5 mm | 3 mm



semi-flush
quasi-bündig
Ø 6.5 mm | 3 mm



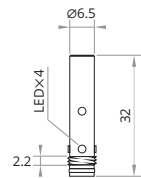
extended
erweitert



extended
erweitert



extended
erweitert



| Sensing distance S_n | Schaltabstand S_n | 3 mm | 3 mm | 3 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 1000 Hz | 1000 Hz | 1000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PUR, 300 mm, M8 | PVC, ultra-flex | conn. M8 Stecker M8 |
| Article code PNP, NO | ┌─ | IPSD6-S3PO18-R3U8 | IPSD6-S3PO30-A2P | IPSD6-S3PO32-A8 |
| Article code PNP, NC | └─ | IPSD6-S3PC18-R3U8 | IPSD6-S3PC30-A2P | IPSD6-S3PC32-A8 |
| Article code PNP, NO+NC | ┌─+ └─ | | | |
| Article code NPN, NO | ┌─ | IPSD6-S3NO18-R3U8 | IPSD6-S3NO30-A2P | IPSD6-S3NO32-A8 |
| Article code NPN, NC | └─ | IPSD6-S3NC18-R3U8 | IPSD6-S3NC30-A2P | IPSD6-S3NC32-A8 |
| Article code NPN, NO+NC | ┌─+ └─ | | | |

Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

semi-flush
quasi-bündig
Ø 6.5 mm | 3 mm



semi-flush
quasi-bündig
Ø 6.5 mm | 3 mm



semi-flush
quasi-bündig
Ø 6.5 mm | 3 mm



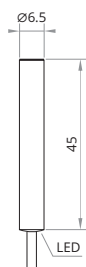
semi-flush
quasi-bündig
Ø 6.5 mm | 3 mm



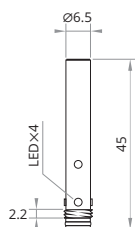
semi-flush
quasi-bündig
Ø 6.5 mm | 3 mm



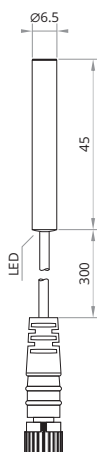
extended
erweitert



extended
erweitert



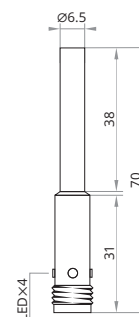
extended
erweitert



extended
erweitert



extended
erweitert



| 3 mm | | 3 mm | | 3 mm | | 3 mm | | 3 mm | |
|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|-------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 1000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| PVC, ultra-flex | | conn. M8 | Stecker M8 | PVC, ultra-flex | | conn. M8 | Stecker M8 | conn. M12 | Stecker M12 |
| IPSD6-S3PO45-A2P | | IPSD6-S3PO45-A8 | | IPSD6-S3PO45-3U8 | | IPSD6-S3PO60-A8 | | IPSD6-S3PO70-A12 | |
| IPSD6-S3PC45-A2P | | IPSD6-S3PC45-A8 | | IPSD6-S3PC45-3U8 | | IPSD6-S3PC60-A8 | | IPSD6-S3PC70-A12 | |
| IPSD6-S3NO45-A2P | | IPSD6-S3NO45-A8 | | IPSD6-S3NO45-3U8 | | IPSD6-S3NO60-A8 | | IPSD6-S3NO70-A12 | |
| IPSD6-S3NC45-A2P | | IPSD6-S3NC45-A8 | | IPSD6-S3NC45-3U8 | | IPSD6-S3NC60-A8 | | IPSD6-S3NC70-A12 | |

Inductive Proximity Switch

3-Wire DC

Induktive Näherungsschalter

3-Leiter DC

non-flush
nicht bündig
Ø 6.5 mm | 4 mm



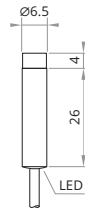
non-flush
nicht bündig
Ø 6.5 mm | 4 mm



non-flush
nicht bündig
Ø 6.5 mm | 4 mm



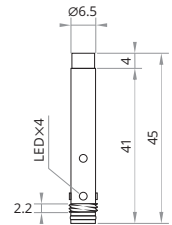
increased
erhöht



increased
erhöht



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 4 mm | 4 mm | 4 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 1000 Hz | 1000 Hz | 1000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | PVC, ultra-flex | conn. M8 Stecker M8 |
| Article code PNP, NO | ┌─ | IPSD6-N4PO30-A2P | IPSD6-N4PO45-A2P | IPSD6-N4PO45-A8 |
| Article code PNP, NC | └─ | IPSD6-N4PC30-A2P | IPSD6-N4PC45-A2P | IPSD6-N4PC45-A8 |
| Article code PNP, NO+NC | ┌─+ └─ | | | |
| Article code NPN, NO | ┌─ | IPSD6-N4NO30-A2P | IPSD6-N4NO45-A2P | IPSD6-N4NO45-A8 |
| Article code NPN, NC | └─ | IPSD6-N4NC30-A2P | IPSD6-N4NC45-A2P | IPSD6-N4NC45-A8 |
| Article code NPN, NO+NC | ┌─+ └─ | | | |

non-flush
nicht bündig
Ø 6.5 mm | 4 mm



non-flush
nicht bündig
Ø 6.5 mm | 4 mm



non-flush
nicht bündig
Ø 6.5 mm | 6 mm



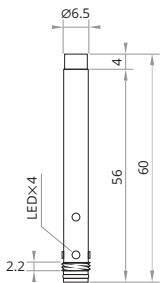
non-flush
nicht bündig
Ø 6.5 mm | 6 mm



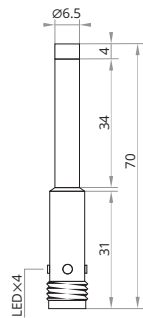
non-flush
nicht bündig
Ø 6.5 mm | 6 mm



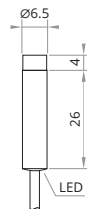
increased
erhöht



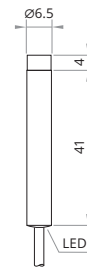
increased
erhöht



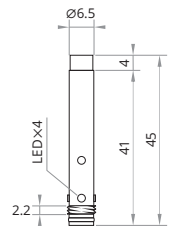
extended
erweitert



extended
erweitert



extended
erweitert



| 4 mm | | 4 mm | | 6 mm | | 6 mm | | 6 mm | |
|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 1000 Hz | | 1000 Hz | | 500 Hz | | 500 Hz | | 500 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| conn. M8 | Stecker M8 | conn. M12 | Stecker M12 | PVC, ultra-flex | | PVC, ultra-flex | | conn. M8 | Stecker M8 |
| IPSD6-N4PO60-A8 | | IPSD6-N4PO70-A12 | | IPSD6-N6PO30-A2P | | IPSD6-N6PO45-A2P | | IPSD6-N6PO45-A8 | |
| IPSD6-N4PC60-A8 | | IPSD6-N4PC70-A12 | | IPSD6-N6PC30-A2P | | IPSD6-N6PC45-A2P | | IPSD6-N6PC45-A8 | |
| IPSD6-N4NO60-A8 | | IPSD6-N4NO70-A12 | | IPSD6-N6NO30-A2P | | IPSD6-N6NO45-A2P | | IPSD6-N6NO45-A8 | |
| IPSD6-N4NC60-A8 | | IPSD6-N4NC70-A12 | | IPSD6-N6NC30-A2P | | IPSD6-N6NC45-A2P | | IPSD6-N6NC45-A8 | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

non-flush
nicht bündig
Ø 6.5 mm | 6 mm



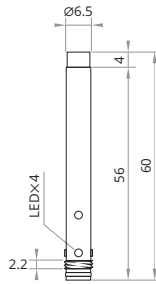
non-flush
nicht bündig
Ø 6.5 mm | 6 mm



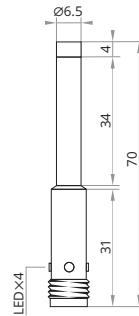
flush
bündig
M8x1 | 1 mm



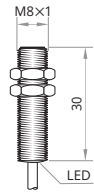
extended
erweitert



extended
erweitert



standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 6 mm | | 6 mm | | 1 mm | |
|-----------------------------|------------------------|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Current consumption | Stromverbrauch | <8 mA | | <8 mA | | <8 mA | |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | | 200 mA | | 200 mA | |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| Switching frequency | Schaltfrequenz | 500 Hz | | 500 Hz | | 2000 Hz | |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| Operating temperature | Betriebstemperatur | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| Protection class | Schutzklasse | IP67 | | IP67 | | IP67 | |
| Sensing face material | Sensorflächenwerkstoff | PBT | | PBT | | PBT | |
| Housing material | Gehäusewerkstoff | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in | integriert | built-in | integriert |
| Connection | Anschluss | conn. M8 | Stecker M8 | conn. M12 | Stecker M12 | PVC, ultra-flex | |
| Article code PNP, NO | ┌─ | IPSD6-N6PO60-A8 | | IPSD6-N6PO70-A12 | | IPS8-S1PO30-A2P | |
| Article code PNP, NC | └─ | IPSD6-N6PC60-A8 | | IPSD6-N6PC70-A12 | | IPS8-S1PC30-A2P | |
| Article code PNP, NO+NC | ┌─+└─ | | | | | | |
| Article code NPN, NO | ┌─ | IPSD6-N6NO60-A8 | | IPSD6-N6NO70-A12 | | IPS8-S1NO30-A2P | |
| Article code NPN, NC | └─ | IPSD6-N6NC60-A8 | | IPSD6-N6NC70-A12 | | IPS8-S1NC30-A2P | |
| Article code NPN, NO+NC | ┌─+└─ | | | | | | |

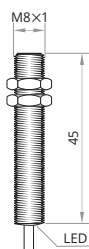
Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

flush
bündig
M8x1 | 1 mm



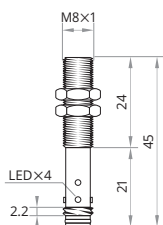
standard
Standard



flush
bündig
M8x1 | 1 mm



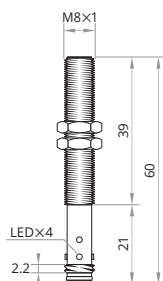
standard
Standard



flush
bündig
M8x1 | 1 mm



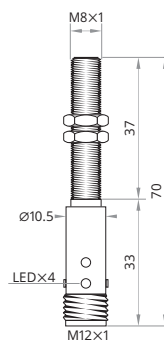
standard
Standard



flush
bündig
M8x1 | 1 mm



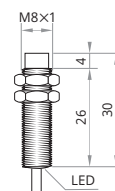
standard
Standard



non-flush
nicht bündig
M8x1 | 2 mm



standard
Standard



| 1 mm | 1 mm | 1 mm | 1 mm | 2 mm |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <8 mA | <8 mA | <8 mA | <8 mA | <8 mA |
| 200 mA | 200 mA | 200 mA | 200 mA | 200 mA |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| 2000 Hz | 2000 Hz | 2000 Hz | 2000 Hz | 2000 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| PVC, ultra-flex | conn. M8 Stecker M8 | conn. M8 Stecker M8 | conn. M12 Stecker M12 | PVC, ultra-flex |
| IPS8-S1PO45-A2P | IPS8-S1PO45-A8 | IPS8-S1PO60-A8 | IPS8-S1PO70-A12 | IPS8-N2PO30-A2P |
| IPS8-S1PC45-A2P | IPS8-S1PC45-A8 | IPS8-S1PC60-A8 | IPS8-S1PC70-A12 | IPS8-N2PC30-A2P |
| IPS8-S1NO45-A2P | IPS8-S1NO45-A8 | IPS8-S1NO60-A8 | IPS8-S1NO70-A12 | IPS8-N2NO30-A2P |
| IPS8-S1NC45-A2P | IPS8-S1NC45-A8 | IPS8-S1NC60-A8 | IPS8-S1NC70-A12 | IPS8-N2NC30-A2P |

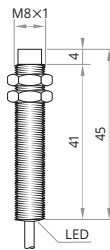
Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

non-flush
nicht bündig
M8×1 | 2 mm



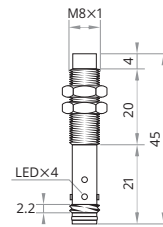
standard
Standard



non-flush
nicht bündig
M8×1 | 2 mm



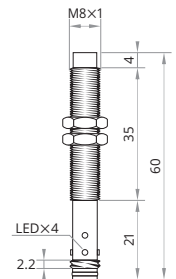
standard
Standard



non-flush
nicht bündig
M8×1 | 2 mm



standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 2 mm | 2 mm | 2 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 2000 Hz | 2000 Hz | 2000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | conn. M8 Stecker M8 | conn. M8 Stecker M8 |
| Article code PNP, NO | ┌— | IPS8-N2PO45-A2P | IPS8-N2PO45-A8 | IPS8-N2PO60-A8 |
| Article code PNP, NC | └— | IPS8-N2PC45-A2P | IPS8-N2PC45-A8 | IPS8-N2PC60-A8 |
| Article code PNP, NO+NC | ┌—+ └— | | | |
| Article code NPN, NO | ┌— | IPS8-N2NO45-A2P | IPS8-N2NO45-A8 | IPS8-N2NO60-A8 |
| Article code NPN, NC | └— | IPS8-N2NC45-A2P | IPS8-N2NC45-A8 | IPS8-N2NC60-A8 |
| Article code NPN, NO+NC | ┌—+ └— | | | |

non-flush
nicht bündig
M8×1 | 2 mm



flush
bündig
M8×1 | 2 mm



flush
bündig
M8×1 | 2 mm



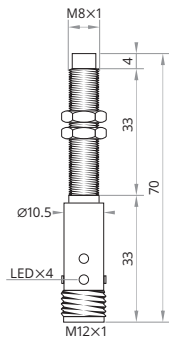
flush
bündig
M8×1 | 2 mm



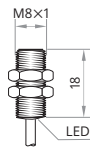
flush
bündig
M8×1 | 2 mm



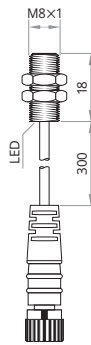
standard
Standard



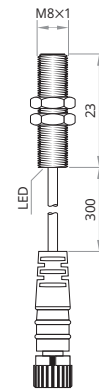
increased
erhöht



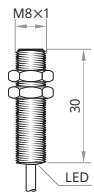
increased
erhöht



increased
erhöht



increased
erhöht



| 2 mm | | 2 mm | | 2 mm | | 2 mm | | 2 mm | |
|-------------------------------|-------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 2000 Hz | | 2000 Hz | | 2000 Hz | | 2000 Hz | | 2000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| conn. M12 | Stecker M12 | PVC, ultra-flex | | PUR, 300 mm, M8 | | PUR, 300 mm, M8 | | PVC, ultra-flex | |
| IPS8-N2PO70-A12 | | IPS8-S2PO18-A2P | | IPS8-S2PO18-3U8 | | IPS8-S2PO30-3U8 | | IPS8-S2PO30-A2P | |
| IPS8-N2PC70-A12 | | IPS8-S2PC18-A2P | | IPS8-S2PC18-3U8 | | IPS8-S2PC30-3U8 | | IPS8-S2PC30-A2P | |
| IPS8-N2NO70-A12 | | IPS8-S2NO18-A2P | | IPS8-S2NO18-3U8 | | IPS8-S2NO30-3U8 | | IPS8-S2NO30-A2P | |
| IPS8-N2NC70-A12 | | IPS8-S2NC18-A2P | | IPS8-S2NC18-3U8 | | IPS8-S2NC30-3U8 | | IPS8-S2NC30-A2P | |

Inductive Proximity Switch

3-Wire DC

Induktive Näherungsschalter

3-Leiter DC

flush
bündig
M8×1 | 2 mm



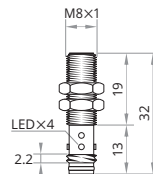
flush
bündig
M8×1 | 2 mm



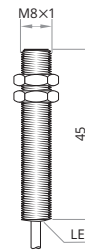
flush
bündig
M8×1 | 2 mm



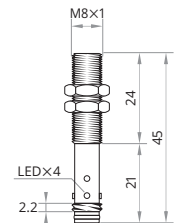
increased
erhöht



increased
erhöht



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 2 mm | 2 mm | 2 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 2000 Hz | 2000 Hz | 2000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | conn. M8 Stecker M8 | PVC, ultra-flex | conn. M8 Stecker M8 |
| Article code PNP, NO | ┌─ | IPS8-S2PO32-A8 | IPS8-S2PO45-A2P | IPS8-S2PO45-A8 |
| Article code PNP, NC | └─ | IPS8-S2PC32-A8 | IPS8-S2PC45-A2P | IPS8-S2PC45-A8 |
| Article code PNP, NO+NC | ┌─+ └─ | | | |
| Article code NPN, NO | ┌─ | IPS8-S2NO32-A8 | IPS8-S2NO45-A2P | IPS8-S2NO45-A8 |
| Article code NPN, NC | └─ | IPS8-S2NC32-A8 | IPS8-S2NC45-A2P | IPS8-S2NC45-A8 |
| Article code NPN, NO+NC | ┌─+ └─ | | | |

flush
bündig
M8×1 | 2 mm



flush
bündig
M8×1 | 2 mm



flush
bündig
M8×1 | 2 mm



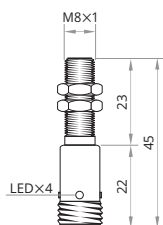
semi-flush
quasi-bündig
M8×1 | 3 mm



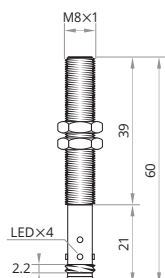
semi-flush
quasi-bündig
M8×1 | 3 mm



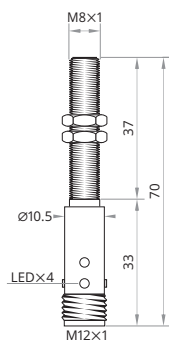
increased
erhöht



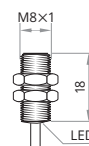
increased
erhöht



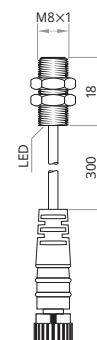
increased
erhöht



extended
erweitert



extended
erweitert



| 2 mm | | 2 mm | | 2 mm | | 3 mm | | 3 mm | |
|-------------------------------|-------------|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 2000 Hz | | 2000 Hz | | 2000 Hz | | 1000 Hz | | 1000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| conn. M12 | Stecker M12 | conn. M8 | Stecker M8 | conn. M12 | Stecker M12 | PVC, ultra-flex | | PUR, 300 mm, M8 | |
| IPS8-S2PO45-A12 | | IPS8-S2PO60-A8 | | IPS8-S2PO70-A12 | | IPS8-S3PO18-A2P | | IPS8-S3PO18-3U8 | |
| IPS8-S2PC45-A12 | | IPS8-S2PC60-A8 | | IPS8-S2PC70-A12 | | IPS8-S3PC18-A2P | | IPS8-S3PC18-3U8 | |
| | | IPS8-S2PCO60-A8 | | IPS8-S2PCO70-A12 | | | | | |
| IPS8-S2NO45-A12 | | IPS8-S2NO60-A8 | | IPS8-S2NO70-A12 | | IPS8-S3NO18-A2P | | IPS8-S3NO18-3U8 | |
| IPS8-S2NC45-A12 | | IPS8-S2NC60-A8 | | IPS8-S2NC70-A12 | | IPS8-S3NC18-A2P | | IPS8-S3NC18-3U8 | |
| | | IPS8-S2NCO60-A8 | | IPS8-S2NCO70-A12 | | | | | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

semi-flush
quasi-bündig
M8×1 | 3 mm



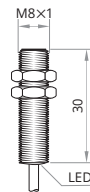
semi-flush
quasi-bündig
M8×1 | 3 mm



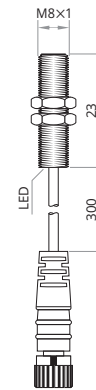
semi-flush
quasi-bündig
M8×1 | 3 mm



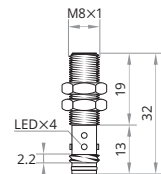
extended
erweitert



extended
erweitert



extended
erweitert



| Sensing distance S_n | Schaltabstand S_n | 3 mm | | 3 mm | | 3 mm | |
|-----------------------------|------------------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Current consumption | Stromverbrauch | <8 mA | | <8 mA | | <8 mA | |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | | 200 mA | | 200 mA | |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| Switching frequency | Schaltfrequenz | 1000 Hz | | 1000 Hz | | 1000 Hz | |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| Operating temperature | Betriebstemperatur | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| Protection class | Schutzklasse | IP67 | | IP67 | | IP67 | |
| Sensing face material | Sensorflächenwerkstoff | PBT | | PBT | | PBT | |
| Housing material | Gehäusewerkstoff | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in | integriert | built-in | integriert |
| Connection | Anschluss | PVC, ultra-flex | | PVC, ultra-flex | | conn. M8 | Stecker M8 |
| Article code PNP, NO | ┌─ | IPS8-S3PO30-A2P | | IPS8-S3PO30-3U8 | | IPS8-S3PO32-A8 | |
| Article code PNP, NC | └─ | IPS8-S3PC30-A2P | | IPS8-S3PC30-3U8 | | IPS8-S3PC32-A8 | |
| Article code PNP, NO+NC | ┌─+ └─ | | | | | | |
| Article code NPN, NO | ┌─ | IPS8-S3NO30-A2P | | IPS8-S3NO30-3U8 | | IPS8-S3NO32-A8 | |
| Article code NPN, NC | └─ | IPS8-S3NC30-A2P | | IPS8-S3NC30-3U8 | | IPS8-S3NC32-A8 | |
| Article code NPN, NO+NC | ┌─+ └─ | | | | | | |

Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

semi-flush
quasi-bündig
M8×1 | 3 mm



semi-flush
quasi-bündig
M8×1 | 3 mm



semi-flush
quasi-bündig
M8×1 | 3 mm



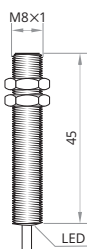
semi-flush
quasi-bündig
M8×1 | 3 mm



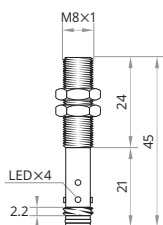
semi-flush
quasi-bündig
M8×1 | 3 mm



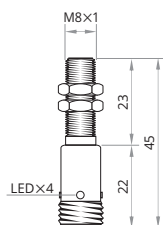
extended
erweitert



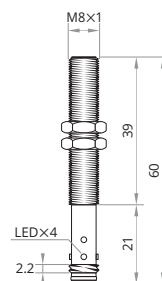
extended
erweitert



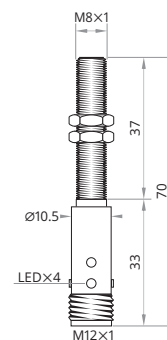
extended
erweitert



extended
erweitert



extended
erweitert



| 3 mm | | 3 mm | | 3 mm | | 3 mm | | 3 mm | |
|-------------------------------|------------|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|-------------------------------|-------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 1000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| PVC, ultra-flex | | conn. M8 | Stecker M8 | conn. M12 | Stecker M12 | conn. M8 | Stecker M8 | conn. M12 | Stecker M12 |
| IPS8-S3PO45-A2P | | IPS8-S3PO45-A8 | | IPS8-S3PO45-A12 | | IPS8-S3PO60-A8 | | IPS8-S3PO70-A12 | |
| IPS8-S3PC45-A2P | | IPS8-S3PC45-A8 | | IPS8-S3PC45-A12 | | IPS8-S3PC60-A8 | | IPS8-S3PC70-A12 | |
| IPS8-S3NO45-A2P | | IPS8-S3NO45-A8 | | IPS8-S3NO45-A12 | | IPS8-S3NO60-A8 | | IPS8-S3NO70-A12 | |
| IPS8-S3NC45-A2P | | IPS8-S3NC45-A8 | | IPS8-S3NC45-A12 | | IPS8-S3NC60-A8 | | IPS8-S3NC70-A12 | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

non-flush
nicht bündig
M8x1 | 4 mm



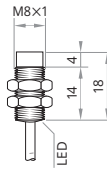
non-flush
nicht bündig
M8x1 | 4 mm



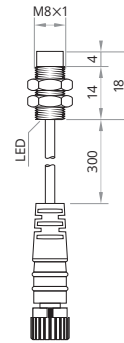
non-flush
nicht bündig
M8x1 | 4 mm



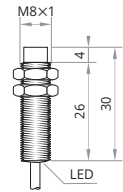
increased
erhöht



increased
erhöht



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 4 mm | 4 mm | 4 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 1000 Hz | 1000 Hz | 1000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | PUR, 300 mm, M8 | PVC, ultra-flex |
| Article code PNP, NO | ↘ | IPS8-N4PO18-A2P | IPS8-N4PO18-3U8 | IPS8-N4PO30-A2P |
| Article code PNP, NC | ↗ | IPS8-N4PC18-A2P | IPS8-N4PC18-3U8 | IPS8-N4PC30-A2P |
| Article code PNP, NO+NC | ↘+↗ | | | |
| Article code NPN, NO | ↘ | IPS8-N4NO18-A2P | IPS8-N4NO18-3U8 | IPS8-N4NO30-A2P |
| Article code NPN, NC | ↗ | IPS8-N4NC18-A2P | IPS8-N4NC18-3U8 | IPS8-N4NC30-A2P |
| Article code NPN, NO+NC | ↘+↗ | | | |

non-flush
nicht bündig
M8x1 | 4 mm



non-flush
nicht bündig
M8x1 | 4 mm



non-flush
nicht bündig
M8x1 | 4 mm



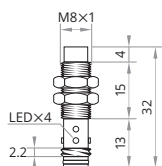
non-flush
nicht bündig
M8x1 | 4 mm



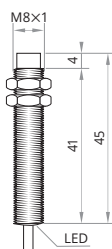
non-flush
nicht bündig
M8x1 | 4 mm



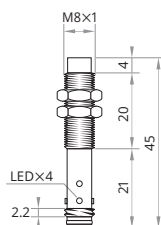
increased
erhöht



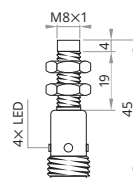
increased
erhöht



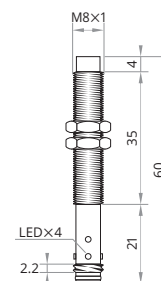
increased
erhöht



increased
erhöht



increased
erhöht



| 4 mm | | 4 mm | | 4 mm | | 4 mm | | 4 mm | |
|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 2000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | SS 1.4301 V2A | | SS 1.4301 V2A | | SS 1.4301 V2A | | SS 1.4301 V2A | |
| SS 1.4301 V2A | | SS 1.4301 V2A | | SS 1.4301 V2A | | SS 1.4301 V2A | | SS 1.4301 V2A | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| conn. M8 | Stecker M8 | PVC, ultra-flex | | conn. M8 | Stecker M8 | conn. M12 | Stecker M12 | conn. M8 | Stecker M8 |
| IPS8-N4PO32-A8 | | IPS8-N4PO45-A2P | | IPS8-N4PO45-A8 | | IPS8-N4PO45-A12 | | IPS8-N4PO60-A8 | |
| IPS8-N4PC32-A8 | | IPS8-N4PC45-A2P | | IPS8-N4PC45-A8 | | IPS8-N4PC45-A12 | | IPS8-N4PC60-A8 | |
| IPS8-N4NO32-A8 | | IPS8-N4NO45-A2P | | IPS8-N4NO45-A8 | | IPS8-N4NO45-A12 | | IPS8-N4NO60-A8 | |
| IPS8-N4NC32-A8 | | IPS8-N4NC45-A2P | | IPS8-N4NC45-A8 | | IPS8-N4NC45-A12 | | IPS8-N4NC60-A8 | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

non-flush
nicht bündig
M8×1 | 4 mm



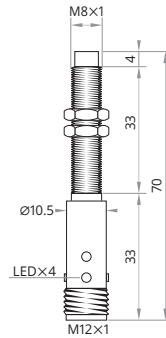
semi-flush
quasi-bündig
M8×1 | 4 mm



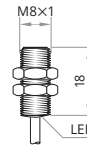
semi-flush
quasi-bündig
M8×1 | 4 mm



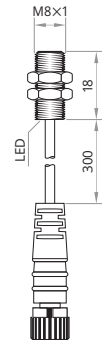
increased
erhöht



advanced
Hochleistung



advanced
Hochleistung



| Sensing distance S_n | Schaltabstand S_n | 4 mm | | 4 mm | | 4 mm | |
|-----------------------------|------------------------|-------------------------------|-------------|-------------------------------|------------|-------------------------------|------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Current consumption | Stromverbrauch | <8 mA | | <8 mA | | <8 mA | |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | | 200 mA | | 200 mA | |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| Switching frequency | Schaltfrequenz | 1000 Hz | | 500 Hz | | 500 Hz | |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| Operating temperature | Betriebstemperatur | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| Protection class | Schutzklasse | IP67 | | IP67 | | IP67 | |
| Sensing face material | Sensorflächenwerkstoff | SS 1.4301 | V2A | PBT | | PBT | |
| Housing material | Gehäusewerkstoff | SS 1.4301 | V2A | brass | Messing | brass | Messing |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in | integriert | built-in | integriert |
| Connection | Anschluss | conn. M12 | Stecker M12 | PVC, ultra-flex | | PUR, 300 mm, M8 | |
| Article code PNP, NO | ↘ | IPS8-N4PO70-A12 | | IPS8-S4PO18-A2P | | IPS8-S4PO18-3U8 | |
| Article code PNP, NC | ↗ | IPS8-N4PC70-A12 | | IPS8-S4PC18-A2P | | IPS8-S4PC18-3U8 | |
| Article code PNP, NO+NC | ↘+↗ | | | | | | |
| Article code NPN, NO | ↘ | IPS8-N4NO70-A12 | | IPS8-S4NO18-A2P | | IPS8-S4NO18-3U8 | |
| Article code NPN, NC | ↗ | IPS8-N4NC70-A12 | | IPS8-S4NC18-A2P | | IPS8-S4NC18-3U8 | |
| Article code NPN, NO+NC | ↘+↗ | | | | | | |

Mind O=0, I=I≠1, S=5, B=8.

O=0, I=I≠1, S=5, B=8 beachten.

semi-flush
quasi-bündig
M8×1 | 4 mm



semi-flush
quasi-bündig
M8×1 | 4 mm



semi-flush
quasi-bündig
M8×1 | 4 mm



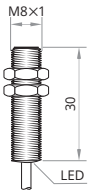
semi-flush
quasi-bündig
M8×1 | 4 mm



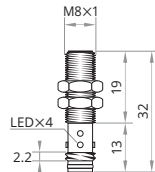
semi-flush
quasi-bündig
M8×1 | 4 mm



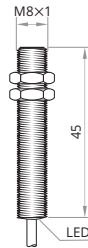
advanced
Hochleistung



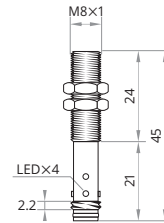
advanced
Hochleistung



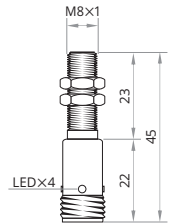
advanced
Hochleistung



advanced
Hochleistung



advanced
Hochleistung



| 4 mm | | 4 mm | | 4 mm | | 4 mm | | 4 mm | |
|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|-------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 500 Hz | | 500 Hz | | 500 Hz | | 500 Hz | | 500 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| brass | Messing | brass | Messing | brass | Messing | brass | Messing | brass | Messing |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| PVC, ultra-flex | | conn. M8 | Stecker M8 | PVC, ultra-flex | | conn. M8 | Stecker M8 | conn. M12 | Stecker M12 |
| IPS8-S4PO30-A2P | | IPS8-S4PO32-A8 | | IPS8-S4PO45-A2P | | IPS8-S4PO45-A8 | | IPS8-S4PO45-A12 | |
| IPS8-S4PC30-A2P | | IPS8-S4PC32-A8 | | IPS8-S4PC45-A2P | | IPS8-S4PC45-A8 | | IPS8-S4PC45-A12 | |
| IPS8-S4NO30-A2P | | IPS8-S4NO32-A8 | | IPS8-S4NO45-A2P | | IPS8-S4NO45-A8 | | IPS8-S4NO45-A12 | |
| IPS8-S4NC30-A2P | | IPS8-S4NC32-A8 | | IPS8-S4NC45-A2P | | IPS8-S4NC45-A8 | | IPS8-S4NC45-A12 | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

semi-flush
quasi-bündig
M8×1 | 4 mm



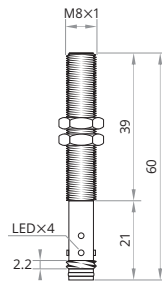
semi-flush
quasi-bündig
M8×1 | 4 mm



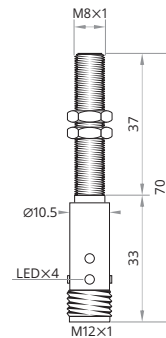
non-flush
nicht bündig
M8×1 | 4 mm



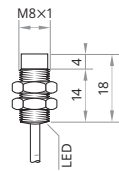
advanced
Hochleistung



advanced
Hochleistung



extended
erweitert



| Sensing distance S_n | Schaltabstand S_n | 4 mm | | 4 mm | | 4 mm | |
|-----------------------------|------------------------|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Current consumption | Stromverbrauch | <8 mA | | <8 mA | | <8 mA | |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | | 200 mA | | 200 mA | |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| Switching frequency | Schaltfrequenz | 500 Hz | | 500 Hz | | 500 Hz | |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| Operating temperature | Betriebstemperatur | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| Protection class | Schutzklasse | IP67 | | IP67 | | IP67 | |
| Sensing face material | Sensorflächenwerkstoff | PBT | | PBT | | PBT | |
| Housing material | Gehäusewerkstoff | brass | Messing | brass | Messing | brass | Messing |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in | integriert | built-in | integriert |
| Connection | Anschluss | conn. M8 | Stecker M8 | conn. M12 | Stecker M12 | PVC, ultra-flex | |
| Article code PNP, NO | ↘ | IPS8-S4PO60-A8 | | IPS8-S4PO70-A12 | | IPS8-N6PO18-A2P | |
| Article code PNP, NC | ↗ | IPS8-S4PC60-A8 | | IPS8-S4PC70-A12 | | IPS8-N6PC18-A2P | |
| Article code PNP, NO+NC | ↘+↗ | | | | | | |
| Article code NPN, NO | ↘ | IPS8-S4NO60-A8 | | IPS8-S4NO70-A12 | | IPS8-N6NO18-A2P | |
| Article code NPN, NC | ↗ | IPS8-S4NC60-A8 | | IPS8-S4NC70-A12 | | IPS8-N6NC18-A2P | |
| Article code NPN, NO+NC | ↘+↗ | | | | | | |

Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

non-flush
nicht bündig
M8x1 | 4 mm



non-flush
nicht bündig
M8x1 | 6 mm



non-flush
nicht bündig
M8x1 | 4 mm



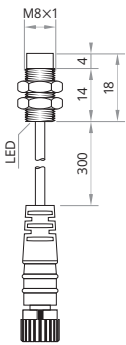
non-flush
nicht bündig
M8x1 | 6 mm



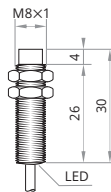
non-flush
nicht bündig
M8x1 | 6 mm



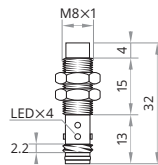
extended
erweitert



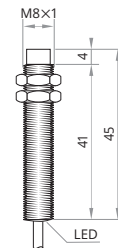
extended
erweitert



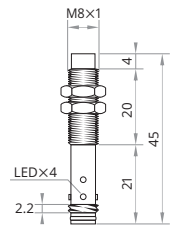
extended
erweitert



extended
erweitert



extended
erweitert



| 4 mm | | 6 mm | | 4 mm | | 6 mm | | 6 mm | |
|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 500 Hz | | 500 Hz | | 500 Hz | | 500 Hz | | 500 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| brass | Messing | brass | Messing | brass | Messing | brass | Messing | brass | Messing |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| PUR, 300 mm, M8 | | PVC, ultra-flex | | conn. M8 | Stecker M8 | PVC, ultra-flex | | conn. M8 | Stecker M8 |
| IPS8-N6PO18-3U8 | | IPS8-N6PO30-A2P | | IPS8-N6PO32-A8 | | IPS8-N6PO45-A2P | | IPS8-N6PO45-A8 | |
| IPS8-N6PC18-3U8 | | IPS8-N6PC30-A2P | | IPS8-N6PC32-A8 | | IPS8-N6PC45-A2P | | IPS8-N6PC45-A8 | |
| IPS8-N6NO18-3U8 | | IPS8-N6NO30-A2P | | IPS8-N6NO32-A8 | | IPS8-N6NO45-A2P | | IPS8-N6NO45-A8 | |
| IPS8-N6NC18-3U8 | | IPS8-N6NC30-A2P | | IPS8-N6NC32-A8 | | IPS8-N6NC45-A2P | | IPS8-N6NC45-A8 | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

non-flush
nicht bündig
M8×1 | 6 mm



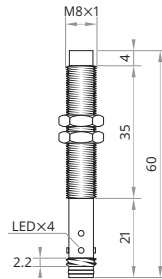
non-flush
nicht bündig
M8×1 | 6 mm



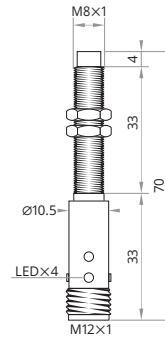
flush
bündig
8×8 mm | 2 mm



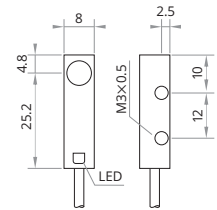
extended
erweitert



extended
erweitert



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 6 mm | | 6 mm | | 2 mm | |
|-----------------------------|------------------------|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Current consumption | Stromverbrauch | <8 mA | | <8 mA | | <8 mA | |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | | 200 mA | | 200 mA | |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| Switching frequency | Schaltfrequenz | 500 Hz | | 500 Hz | | 1000 Hz | |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| Operating temperature | Betriebstemperatur | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| Protection class | Schutzklasse | IP67 | | IP67 | | IP67 | |
| Sensing face material | Sensorflächenwerkstoff | PBT | | PBT | | PBT | |
| Housing material | Gehäusewerkstoff | brass | Messing | brass | Messing | brass | Messing |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in | integriert | built-in | integriert |
| Connection | Anschluss | conn. M8 | Stecker M8 | conn. M12 | Stecker M12 | PVC, ultra-flex | |
| Article code PNP, NO | ┌─ | IPS8-N6PO60-A8 | | IPS8-N6PO70-A12 | | IPS88-S2PO30-A2P | |
| Article code PNP, NC | └─ | IPS8-N6PC60-A8 | | IPS8-N6PC70-A12 | | IPS88-S2PC30-A2P | |
| Article code PNP, NO+NC | ┌─+└─ | | | | | | |
| Article code NPN, NO | ┌─ | IPS8-N6NO60-A8 | | IPS8-N6NO70-A12 | | IPS88-S2NO30-A2P | |
| Article code NPN, NC | └─ | IPS8-N6NC60-A8 | | IPS8-N6NC70-A12 | | IPS88-S2NC30-A2P | |
| Article code NPN, NO+NC | ┌─+└─ | | | | | | |

flush
bündig
8×8 mm | 2 mm



flush
bündig
8×8 mm | 2 mm



flush
bündig
8×8 mm | 2 mm



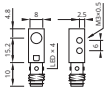
flush
bündig
8×8 mm | 2 mm



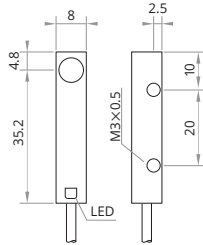
flush
bündig
8×8 mm | 2 mm



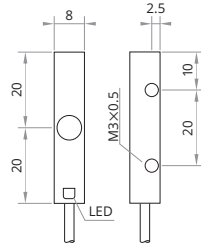
increased
erhöht



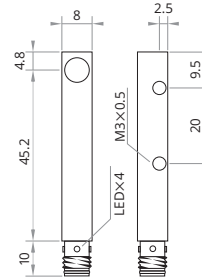
increased
erhöht



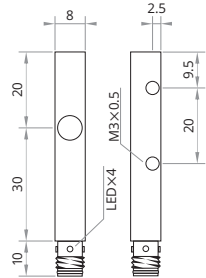
increased
erhöht



increased
erhöht



increased
erhöht



| 2 mm | | 2 mm | | 2 mm | | 2 mm | | 2 mm | |
|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 1000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| brass | Messing | brass | Messing | brass | Messing | brass | Messing | brass | Messing |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| conn. M8 | Stecker M8 | PVC, ultra-flex | | PVC, ultra-flex | | conn. M8 | Stecker M8 | conn. M8 | Stecker M8 |
| IPS88-S2PO30-A8 | | IPS88-S2PO40-A2P | | IPS88-S2PO40C-A2P | | IPS88-S2PO60-A8 | | IPS88-S2PO60C-A8 | |
| IPS88-S2PC30-A8 | | IPS88-S2PC40-A2P | | IPS88-S2PC40C-A2P | | IPS88-S2PC60-A8 | | IPS88-S2PC60C-A8 | |
| IPS88-S2NO30-A8 | | IPS88-S2NO40-A2P | | IPS88-S2NO40C-A2P | | IPS88-S2NO60-A8 | | IPS88-S2NO60C-A8 | |
| IPS88-S2NC30-A8 | | IPS88-S2NC40-A2P | | IPS88-S2NC40C-A2P | | IPS88-S2NC60-A8 | | IPS88-S2NC60C-A8 | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

flush
bündig
8×8 mm | 3 mm



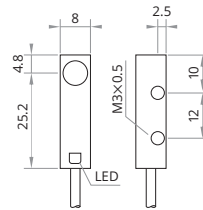
flush
bündig
8×8 mm | 3 mm



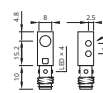
flush
bündig
8×8 mm | 3 mm



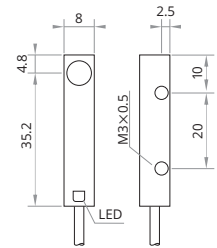
extended
erweitert



extended
erweitert



extended
erweitert



| Sensing distance S_n | Schaltabstand S_n | 3 mm | | 3 mm | | 3 mm | |
|-----------------------------|------------------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Current consumption | Stromverbrauch | <8 mA | | <8 mA | | <8 mA | |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | | 200 mA | | 200 mA | |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| Switching frequency | Schaltfrequenz | 1000 Hz | | 1000 Hz | | 1000 Hz | |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| Operating temperature | Betriebstemperatur | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| Protection class | Schutzklasse | IP67 | | IP67 | | IP67 | |
| Sensing face material | Sensorflächenwerkstoff | PBT | | PBT | | PBT | |
| Housing material | Gehäusewerkstoff | brass | Messing | brass | Messing | brass | Messing |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in | integriert | built-in | integriert |
| Connection | Anschluss | PVC, ultra-flex | | conn. M8 | Stecker M8 | PVC, ultra-flex | |
| Article code PNP, NO | ┌─ | IPS88-S3PO30-A2P | | IPS88-S3PO30-A8 | | IPS88-S3PO40-A2P | |
| Article code PNP, NC | └─ | IPS88-S3PC30-A2P | | IPS88-S3PC30-A8 | | IPS88-S3PC40-A2P | |
| Article code PNP, NO+NC | ┌─+└─ | | | | | | |
| Article code NPN, NO | ┌─ | IPS88-S3NO30-A2P | | IPS88-S3NO30-A8 | | IPS88-S3NO40-A2P | |
| Article code NPN, NC | └─ | IPS88-S3NC30-A2P | | IPS88-S3NC30-A8 | | IPS88-S3NC40-A2P | |
| Article code NPN, NO+NC | ┌─+└─ | | | | | | |

Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

flush
bündig
8×8 mm | 3 mm



flush
bündig
8×8 mm | 3 mm



flush
bündig
8×8 mm | 3 mm



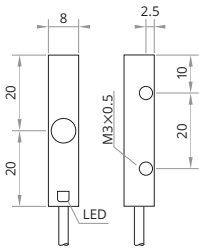
flush
bündig
M12×1 | 2 mm



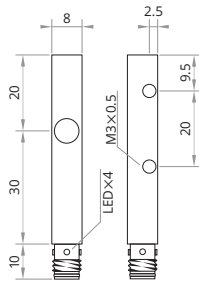
flush
bündig
M12×1 | 2 mm



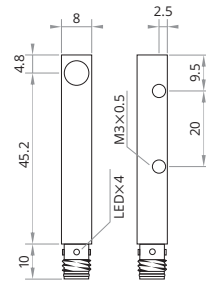
extended
erweitert



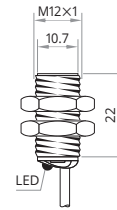
extended
erweitert



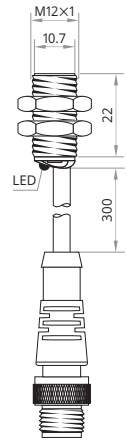
extended
erweitert



standard
Standard



standard
Standard



| | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <8 mA | <8 mA | <8 mA | <8 mA | <8 mA |
| 200 mA | 200 mA | 200 mA | 200 mA | 200 mA |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| 1000 Hz | 1000 Hz | 1000 Hz | 2000 Hz | 2000 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| brass Messing | brass Messing | brass Messing | brass Messing | brass Messing |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| PVC, ultra-flex | conn. M8 Stecker M8 | conn. M8 Stecker M8 | PVC, ultra-flex | PVC, 300 mm, M12 |
| IPS88-S3PO40C-A2P | IPS88-S3PO60C-A8 | IPS88-S3PO60-A8 | IPS12-S2PO22-A2P | IPS12-S2PO22-3P12 |
| IPS88-S3PC40C-A2P | IPS88-S3PC60C-A8 | IPS88-S3PC60-A8 | IPS12-S2PC22-A2P | IPS12-S2PC22-3P12 |
| IPS88-S3NO40C-A2P | IPS88-S3NO60C-A8 | IPS88-S3NO60-A8 | IPS12-S2NO22-A2P | IPS12-S2NO22-3P12 |
| IPS88-S3NC40C-A2P | IPS88-S3NC60C-A8 | IPS88-S3NC60-A8 | IPS12-S2NC22-A2P | IPS12-S2NC22-3P12 |

Inductive Proximity Switch

3-Wire DC

Induktive Näherungsschalter

3-Leiter DC

flush
bündig
M12×1 | 2 mm



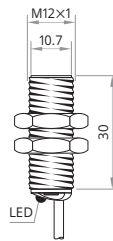
flush
bündig
M12×1 | 2 mm



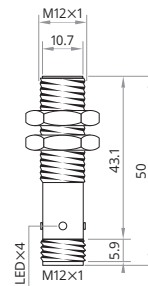
flush
bündig
M12×1 | 2 mm



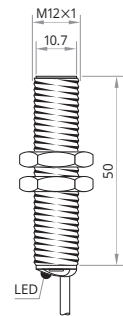
standard
Standard



standard
Standard



standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 2 mm | 2 mm | 2 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 2000 Hz | 2000 Hz | 2000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex |
| Article code PNP, NO | ┌─ | IPS12-S2PO30-A2P | IPS12-S2PO35-A12 | IPS12-S2PO50-A2P |
| Article code PNP, NC | └─ | IPS12-S2PC30-A2P | IPS12-S2PC35-A12 | IPS12-S2PC50-A2P |
| Article code PNP, NO+NC | ┌─+ └─ | | | |
| Article code NPN, NO | ┌─ | IPS12-S2NO30-A2P | IPS12-S2NO35-A12 | IPS12-S2NO50-A2P |
| Article code NPN, NC | └─ | IPS12-S2NC30-A2P | IPS12-S2NC35-A12 | IPS12-S2NC50-A2P |
| Article code NPN, NO+NC | ┌─+ └─ | | | |

flush
bündig
M12x1 | 2 mm



flush
bündig
M12x1 | 2 mm



non-flush
nicht bündig
M12x1 | 4 mm



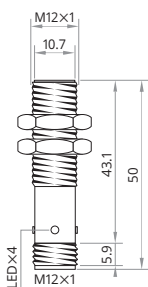
non-flush
nicht bündig
M12x1 | 4 mm



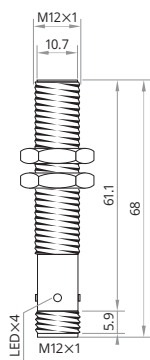
non-flush
nicht bündig
M12x1 | 4 mm



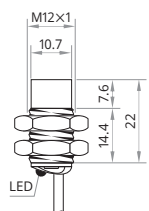
standard
Standard



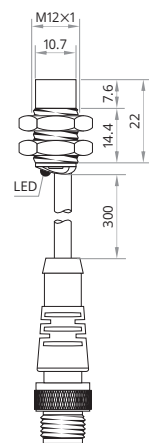
standard
Standard



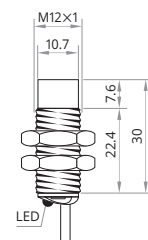
standard
Standard



standard
Standard



standard
Standard



| 2 mm | | 2 mm | | 4 mm | | 4 mm | | 4 mm | |
|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 2000 Hz | | 2000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| brass | Messing | brass | Messing | brass | Messing | brass | Messing | brass | Messing |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| conn. M12 | Stecker M12 | conn. M12 | Stecker M12 | PVC, ultra-flex | | PVC, 300 mm, M12 | | PVC, ultra-flex | |
| IPS12-S2PO50-A12 | | IPS12-S2PO68-A12 | | IPS12-N4PO22-A2P | | IPS12-N4PO22-3P12 | | IPS12-N4PO30-A2P | |
| IPS12-S2PC50-A12 | | IPS12-S2PC68-A12 | | IPS12-N4PC22-A2P | | IPS12-N4PC22-3P12 | | IPS12-N4PC30-A2P | |
| IPS12-S2NO50-A12 | | IPS12-S2NO68-A12 | | IPS12-N4NO22-A2P | | IPS12-N4NO22-3P12 | | IPS12-N4NO30-A2P | |
| IPS12-S2NC50-A12 | | IPS12-S2NC68-A12 | | IPS12-N4NC22-A2P | | IPS12-N4NC22-3P12 | | IPS12-N4NC30-A2P | |

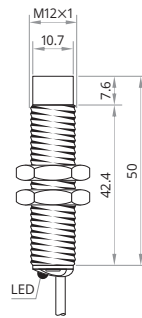
Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

non-flush
nicht bündig
M12x1 | 4 mm



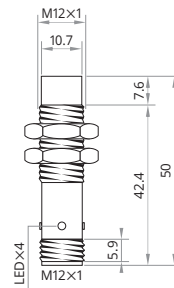
standard
Standard



non-flush
nicht bündig
M12x1 | 4 mm



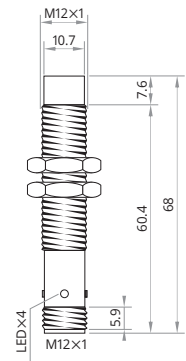
standard
Standard



non-flush
nicht bündig
M12x1 | 4 mm



standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 4 mm | 4 mm | 4 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 1000 Hz | 1000 Hz | 1000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | conn. M12 Stecker M12 | conn. M12 Stecker M12 |
| Article code PNP, NO | ┌— | IPS12-N4PO50-A2P | IPS12-N4PO50-A12 | IPS12-N4PO68-A12 |
| Article code PNP, NC | └— | IPS12-N4PC50-A2P | IPS12-N4PC50-A12 | IPS12-N4PC68-A12 |
| Article code PNP, NO+NC | ┌—+└— | | | |
| Article code NPN, NO | ┌— | IPS12-N4NO50-A2P | IPS12-N4NO50-A12 | IPS12-N4NO68-A12 |
| Article code NPN, NC | └— | IPS12-N4NC50-A2P | IPS12-N4NC50-A12 | IPS12-N4NC68-A12 |
| Article code NPN, NO+NC | ┌—+└— | | | |

Mind O=0, I=I≠1, S=5, B=8.

O=0, I=I≠1, S=5, B=8 beachten.

flush
bündig
M12×1 | 4 mm



flush
bündig
M12×1 | 4 mm



flush
bündig
M12×1 | 4 mm



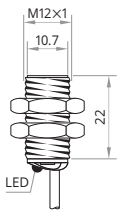
flush
bündig
M12×1 | 4 mm



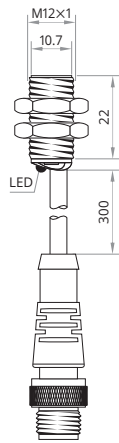
flush
bündig
M12×1 | 4 mm



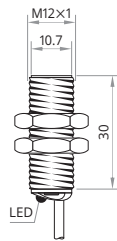
increased
erhöht



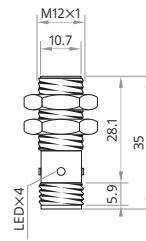
increased
erhöht



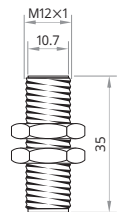
increased
erhöht



increased
erhöht



increased
erhöht



| 4 mm | | 4 mm | | 4 mm | | 4 mm | | 4 mm | |
|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 1000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| brass | Messing | brass | Messing | brass | Messing | brass | Messing | brass | Messing |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| PVC, ultra-flex | | PVC, 300 mm, M12 | | PVC, ultra-flex | | conn. M12 Stecker M12 | | conn. M12 Stecker M12 | |
| IPS12-S4PO22-A2P | | IPS12-S4PO22-3P12 | | IPS12-S4PO30-A2P | | IPS12-S4PO35-A12 | | IPS12-S4PO35-N12 | |
| IPS12-S4PC22-A2P | | IPS12-S4PC22-3P12 | | IPS12-S4PC30-A2P | | IPS12-S4PC35-A12 | | IPS12-S4PC35-N12 | |
| IPS12-S4NO22-A2P | | IPS12-S4NO22-3P12 | | IPS12-S4NO30-A2P | | IPS12-S4NO35-A12 | | IPS12-S4NO35-N12 | |
| IPS12-S4NC22-A2P | | IPS12-S4NC22-3P12 | | IPS12-S4NC30-A2P | | IPS12-S4NC35-A12 | | IPS12-S4NC35-N12 | |

Inductive Proximity Switch

3-Wire DC

Induktive Näherungsschalter

3-Leiter DC

flush
bündig
M12x1 | 4 mm



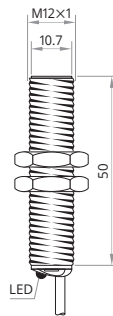
flush
bündig
M12x1 | 4 mm



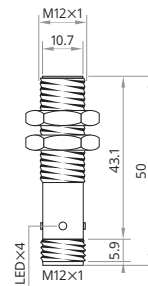
flush
bündig
M12x1 | 4 mm



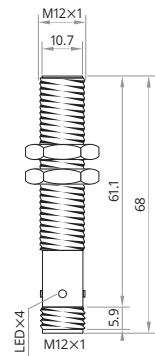
increased
erhöht



increased
erhöht



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 4 mm | 4 mm | 4 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 1000 Hz | 1000 Hz | 1000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | conn. M12 Stecker M12 | conn. M12 Stecker M12 |
| Article code PNP, NO | ↘ | IPS12-S4PO50-A2P | IPS12-S4PO50-A12 | IPS12-S4PO68-A12 |
| Article code PNP, NC | ↗ | IPS12-S4PC50-A2P | IPS12-S4PC50-A12 | IPS12-S4PC68-A12 |
| Article code PNP, NO+NC | ↘+↗ | IPS12-S4PCO50-A2P | IPS12-S4PCO50-A12 | IPS12-S4PCO68-A12 |
| Article code NPN, NO | ↘ | IPS12-S4NO50-A2P | IPS12-S4NO50-A12 | IPS12-S4NO68-A12 |
| Article code NPN, NC | ↗ | IPS12-S4NC50-A2P | IPS12-S4NC50-A12 | IPS12-S4NC68-A12 |
| Article code NPN, NO+NC | ↘+↗ | IPS12-S4NCO50-A2P | IPS12-S4NCO50-A12 | IPS12-S4NCO68-A12 |

semi-flush
quasi-bündig
M12x1 | 6 mm



semi-flush
quasi-bündig
M12x1 | 6 mm



semi-flush
quasi-bündig
M12x1 | 6 mm



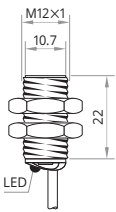
semi-flush
quasi-bündig
M12x1 | 6 mm



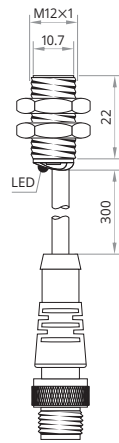
semi-flush
quasi-bündig
M12x1 | 6 mm



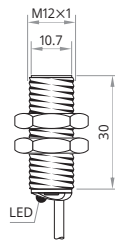
extended
erweitert



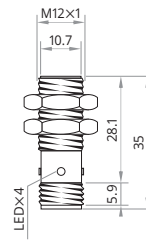
extended
erweitert



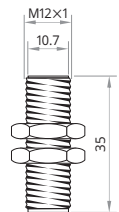
extended
erweitert



extended
erweitert



extended
erweitert



| 6 mm | | 6 mm | | 6 mm | | 6 mm | | 6 mm | |
|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 800 Hz | | 800 Hz | | 800 Hz | | 800 Hz | | 800 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| brass | Messing | brass | Messing | brass | Messing | brass | Messing | brass | Messing |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| PVC, ultra-flex | | PVC, 300 mm, M12 | | PVC, ultra-flex | | conn. M12 Stecker M12 | | conn. M12 Stecker M12 | |
| IPS12-S6PO22-A2P | | IPS12-S6PO22-3P12 | | IPS12-S6PO30-A2P | | IPS12-S6PO35-A12 | | IPS12-S6PO35-N12 | |
| IPS12-S6PC22-A2P | | IPS12-S6PC22-3P12 | | IPS12-S6PC30-A2P | | IPS12-S6PC35-A12 | | IPS12-S6PC35-N12 | |
| IPS12-S6NO22-A2P | | IPS12-S6NO22-3P12 | | IPS12-S6NO30-A2P | | IPS12-S6NO35-A12 | | IPS12-S6NO35-N12 | |
| IPS12-S6NC22-A2P | | IPS12-S6NC22-3P12 | | IPS12-S6NC30-A2P | | IPS12-S6NC35-A12 | | IPS12-S6NC35-N12 | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

semi-flush
quasi-bündig
M12×1 | 6 mm



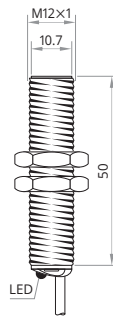
semi-flush
quasi-bündig
M12×1 | 6 mm



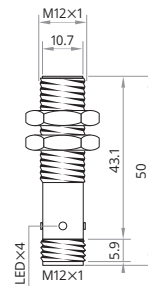
semi-flush
quasi-bündig
M12×1 | 6 mm



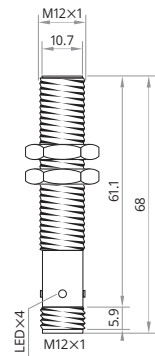
extended
erweitert



extended
erweitert



extended
erweitert



| Sensing distance S_n | Schaltabstand S_n | 6 mm | | 6 mm | | 6 mm | |
|-----------------------------|------------------------|-------------------------------|------------|-------------------------------|-------------|-------------------------------|-------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Current consumption | Stromverbrauch | <8 mA | | <8 mA | | <8 mA | |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | | 200 mA | | 200 mA | |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| Switching frequency | Schaltfrequenz | 800 Hz | | 800 Hz | | 800 Hz | |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| Operating temperature | Betriebstemperatur | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| Protection class | Schutzklasse | IP67 | | IP67 | | IP67 | |
| Sensing face material | Sensorflächenwerkstoff | PBT | | PBT | | PBT | |
| Housing material | Gehäusewerkstoff | brass | Messing | brass | Messing | brass | Messing |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in | integriert | built-in | integriert |
| Connection | Anschluss | PVC, ultra-flex | | conn. M12 | Stecker M12 | conn. M12 | Stecker M12 |
| Article code PNP, NO | ↘ | IPS12-S6PO50-A2P | | IPS12-S6PO50-A12 | | IPS12-S6PO68-A12 | |
| Article code PNP, NC | ↗ | IPS12-S6PC50-A2P | | IPS12-S6PC50-A12 | | IPS12-S6PC68-A12 | |
| Article code PNP, NO+NC | ↘+↗ | | | | | | |
| Article code NPN, NO | ↘ | IPS12-S6NO50-A2P | | IPS12-S6NO50-A12 | | IPS12-S6NO68-A12 | |
| Article code NPN, NC | ↗ | IPS12-S6NC50-A2P | | IPS12-S6NC50-A12 | | IPS12-S6NC68-A12 | |
| Article code NPN, NO+NC | ↘+↗ | | | | | | |

non-flush
nicht bündig
M12x1 | 8 mm



non-flush
nicht bündig
M12x1 | 8 mm



non-flush
nicht bündig
M12x1 | 8 mm



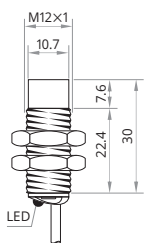
non-flush
nicht bündig
M12x1 | 8 mm



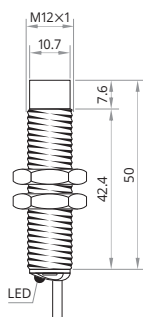
semi-flush
quasi-bündig
M12x1 | 8 mm



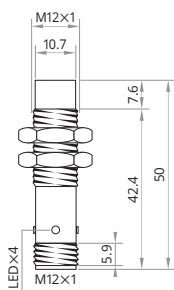
increased
erhöht



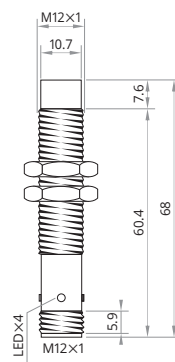
increased
erhöht



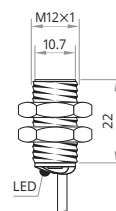
increased
erhöht



increased
erhöht



advanced
Hochleistung



| 8 mm | 8 mm | 8 mm | 8 mm | 8 mm |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <8 mA | <8 mA | <8 mA | <8 mA | <8 mA |
| 200 mA | 200 mA | 200 mA | 200 mA | 200 mA |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| 500 Hz | 500 Hz | 500 Hz | 500 Hz | 800 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| brass Messing | brass Messing | brass Messing | brass Messing | brass Messing |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| PVC, ultra-flex | PVC, ultra-flex | conn. M12 Stecker M12 | conn. M12 Stecker M12 | PVC, ultra-flex |
| IPS12-N8PO30-A2P | IPS12-N8PO50-A2P | IPS12-N8PO50-A12 | IPS12-N8PO68-A12 | IPS12-S8PO22-A2P |
| IPS12-N8PC30-A2P | IPS12-N8PC50-A2P | IPS12-N8PC50-A12 | IPS12-N8PC68-A12 | IPS12-S8PC22-A2P |
| IPS12-N8NO30-A2P | IPS12-N8NO50-A2P | IPS12-N8NO50-A12 | IPS12-N8NO68-A12 | IPS12-S8NO22-A2P |
| IPS12-N8NC30-A2P | IPS12-N8NC50-A2P | IPS12-N8NC50-A12 | IPS12-N8NC68-A12 | IPS12-S8NC22-A2P |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

semi-flush
quasi-bündig
M12×1 | 8 mm



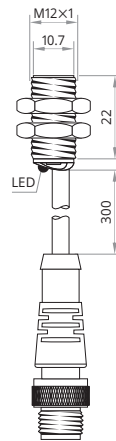
semi-flush
quasi-bündig
M12×1 | 8 mm



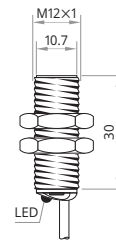
semi-flush
quasi-bündig
M12×1 | 8 mm



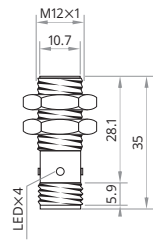
advanced
Hochleistung



advanced
Hochleistung



advanced
Hochleistung



| Sensing distance S_n | Schaltabstand S_n | 8 mm | | 8 mm | | 8 mm | |
|-----------------------------|------------------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|-------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Current consumption | Stromverbrauch | <8 mA | | <8 mA | | <8 mA | |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | | 200 mA | | 200 mA | |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| Switching frequency | Schaltfrequenz | 800 Hz | | 800 Hz | | 800 Hz | |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| Operating temperature | Betriebstemperatur | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| Protection class | Schutzklasse | IP67 | | IP67 | | IP67 | |
| Sensing face material | Sensorflächenwerkstoff | PBT | | PBT | | PBT | |
| Housing material | Gehäusewerkstoff | brass | Messing | brass | Messing | brass | Messing |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in | integriert | built-in | integriert |
| Connection | Anschluss | PVC, 300 mm, M12 | | PVC, ultra-flex | | conn. M12 | Stecker M12 |
| Article code PNP, NO | ┌─ | IPS12-S8PO22-3P12 | | IPS12-S8PO30-A2P | | IPS12-S8PO35-A12 | |
| Article code PNP, NC | └─ | IPS12-S8PC22-3P12 | | IPS12-S8PC30-A2P | | IPS12-S8PC35-A12 | |
| Article code PNP, NO+NC | ┌─+ └─ | | | | | | |
| Article code NPN, NO | ┌─ | IPS12-S8NO22-3P12 | | IPS12-S8NO30-A2P | | IPS12-S8NO35-A12 | |
| Article code NPN, NC | └─ | IPS12-S8NC22-3P12 | | IPS12-S8NC30-A2P | | IPS12-S8NC35-A12 | |
| Article code NPN, NO+NC | ┌─+ └─ | | | | | | |

Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

semi-flush
quasi-bündig
M12x1 | 8 mm



semi-flush
quasi-bündig
M12x1 | 8 mm



semi-flush
quasi-bündig
M12x1 | 8 mm



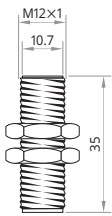
semi-flush
quasi-bündig
M12x1 | 8 mm



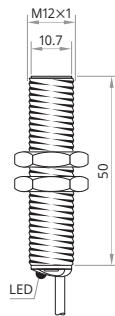
non-flush
nicht bündig
M12x1 | 10 mm



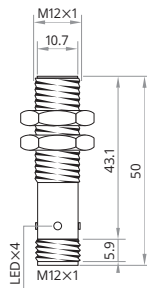
advanced
Hochleistung



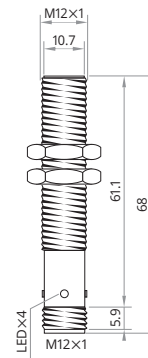
advanced
Hochleistung



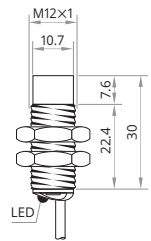
advanced
Hochleistung



advanced
Hochleistung



extended
erweitert



| 8 mm | | 8 mm | | 8 mm | | 8 mm | | 10 mm | |
|-------------------------------|-------------|-------------------------------|------------|-------------------------------|-------------|-------------------------------|-------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 800 Hz | | 800 Hz | | 800 Hz | | 800 Hz | | 400 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| brass | Messing | brass | Messing | brass | Messing | brass | Messing | brass | Messing |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| conn. M12 | Stecker M12 | PVC, ultra-flex | | conn. M12 | Stecker M12 | conn. M12 | Stecker M12 | PVC, ultra-flex | |
| IPS12-S8PO35-N12 | | IPS12-S8PO50-A2P | | IPS12-S8PO50-A12 | | IPS12-S8PO68-A12 | | IPS12-N10PO30-A2P | |
| IPS12-S8PC35-N12 | | IPS12-S8PC50-A2P | | IPS12-S8PC50-A12 | | IPS12-S8PC68-A12 | | IPS12-N10PC30-A2P | |
| IPS12-S8NO35-N12 | | IPS12-S8NO50-A2P | | IPS12-S8NO50-A12 | | IPS12-S8NO68-A12 | | IPS12-N10NO30-A2P | |
| IPS12-S8NC35-N12 | | IPS12-S8NC50-A2P | | IPS12-S8NC50-A12 | | IPS12-S8NC68-A12 | | IPS12-N10NC30-A2P | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

non-flush
nicht bündig
M12×1 | 10 mm



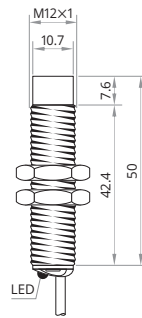
non-flush
nicht bündig
M12×1 | 10 mm



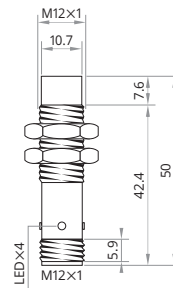
non-flush
nicht bündig
M12×1 | 10 mm



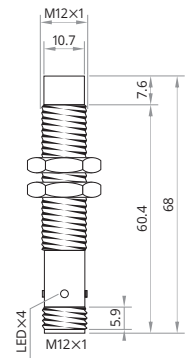
extended
erweitert



extended
erweitert



extended
erweitert



| Sensing distance S_n | Schaltabstand S_n | 10 mm | 10 mm | 10 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 400 Hz | 400 Hz | 400 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | conn. M12 Stecker M12 | conn. M12 Stecker M12 |
| Article code PNP, NO | ┌─ | IPS12-N10PO50-A2P | IPS12-N10PO50-A12 | IPS12-N10PO68-A12 |
| Article code PNP, NC | └─ | IPS12-N10PC50-A2P | IPS12-N10PC50-A12 | IPS12-N10PC68-A12 |
| Article code PNP, NO+NC | ┌─+ └─ | | | |
| Article code NPN, NO | ┌─ | IPS12-N10NO50-A2P | IPS12-N10NO50-A12 | IPS12-N10NO68-A12 |
| Article code NPN, NC | └─ | IPS12-N10NC50-A2P | IPS12-N10NC50-A12 | IPS12-N10NC68-A12 |
| Article code NPN, NO+NC | ┌─+ └─ | | | |

Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

non-flush
nicht bündig
M12×1 | 12 mm



non-flush
nicht bündig
M12×1 | 12 mm



non-flush
nicht bündig
M12×1 | 12 mm



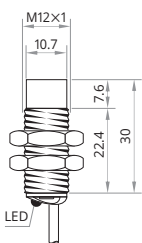
non-flush
nicht bündig
M12×1 | 12 mm



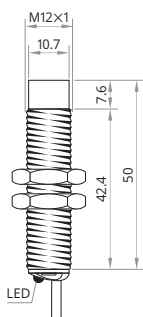
flush
bündig
M18×1 | 5 mm



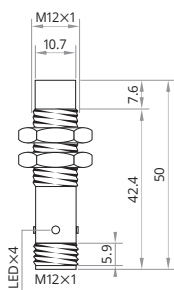
advanced
Hochleistung



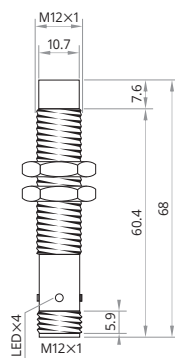
advanced
Hochleistung



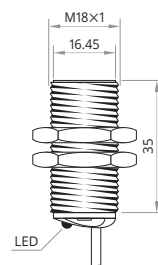
advanced
Hochleistung



advanced
Hochleistung



standard
Standard



| 12 mm | | 12 mm | | 12 mm | | 12 mm | | 5 mm | |
|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 400 Hz | | 400 Hz | | 400 Hz | | 400 Hz | | 1000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| brass | Messing | brass | Messing | brass | Messing | brass | Messing | brass | Messing |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| PVC, ultra-flex | | PVC, ultra-flex | | conn. M12 Stecker M12 | | conn. M12 Stecker M12 | | PVC, ultra-flex | |
| IPS12-N12PO30-A2P | | IPS12-N12PO50-A2P | | IPS12-N12PO50-A12 | | IPS12-N12PO68-A12 | | IPS18-S5PO35-A2P | |
| IPS12-N12PC30-A2P | | IPS12-N12PC50-A2P | | IPS12-N12PC50-A12 | | IPS12-N12PC68-A12 | | IPS18-S5PC35-A2P | |
| IPS12-N12NO30-A2P | | IPS12-N12NO50-A2P | | IPS12-N12NO50-A12 | | IPS12-N12NO68-A12 | | IPS18-S5NO35-A2P | |
| IPS12-N12NC30-A2P | | IPS12-N12NC50-A2P | | IPS12-N12NC50-A12 | | IPS12-N12NC68-A12 | | IPS18-S5NC35-A2P | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

flush
bündig
M18x1 | 5 mm



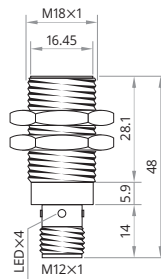
flush
bündig
M18x1 | 5 mm



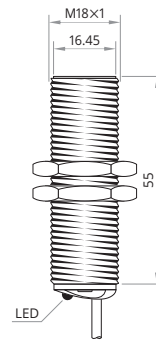
flush
bündig
M18x1 | 5 mm



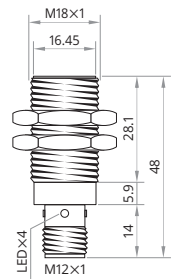
standard
Standard



standard
Standard



standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 5 mm | | 5 mm | | 5 mm | |
|-----------------------------|------------------------|-------------------------------|-------------|-------------------------------|------------|-------------------------------|-------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Current consumption | Stromverbrauch | <8 mA | | <8 mA | | <8 mA | |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | | 200 mA | | 200 mA | |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| Switching frequency | Schaltfrequenz | 1000 Hz | | 1000 Hz | | 1000 Hz | |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| Operating temperature | Betriebstemperatur | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| Protection class | Schutzklasse | IP67 | | IP67 | | IP67 | |
| Sensing face material | Sensorflächenwerkstoff | PBT | | PBT | | PBT | |
| Housing material | Gehäusewerkstoff | brass | Messing | brass | Messing | brass | Messing |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in | integriert | built-in | integriert |
| Connection | Anschluss | conn. M12 | Stecker M12 | PVC, ultra-flex | | conn. M12 | Stecker M12 |
| Article code PNP, NO | ┌─ | IPS18-S5PO48-A12 | | IPS18-S5PO55-A2P | | IPS18-S5PO79-A12 | |
| Article code PNP, NC | └─ | IPS18-S5PC48-A12 | | IPS18-S5PC55-A2P | | IPS18-S5PC79-A12 | |
| Article code PNP, NO+NC | ┌─+└─ | | | | | | |
| Article code NPN, NO | ┌─ | IPS18-S5NO48-A12 | | IPS18-S5NO55-A2P | | IPS18-S5NO79-A12 | |
| Article code NPN, NC | └─ | IPS18-S5NC48-A12 | | IPS18-S5NC55-A2P | | IPS18-S5NC79-A12 | |
| Article code NPN, NO+NC | ┌─+└─ | | | | | | |

Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

flush
bündig
M18×1 | 8 mm



flush
bündig
M18×1 | 8 mm



flush
bündig
M18×1 | 8 mm



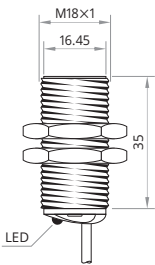
flush
bündig
M18×1 | 8 mm



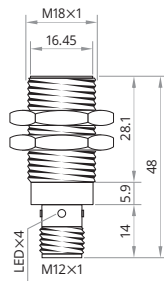
non-flush
nicht bündig
M18×1 | 8 mm



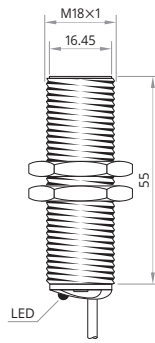
increased
erhöht



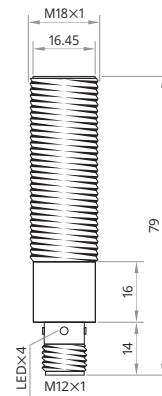
increased
erhöht



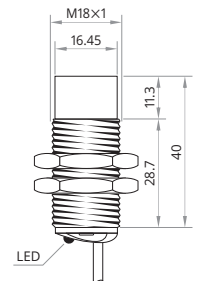
increased
erhöht



increased
erhöht



standard
Standard



| 8 mm | 8 mm | 8 mm | 8 mm | 8 mm |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <8 mA | <8 mA | <8 mA | <8 mA | <8 mA |
| 200 mA | 200 mA | 200 mA | 200 mA | 200 mA |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| 500 Hz | 500 Hz | 500 Hz | 500 Hz | 500 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| brass Messing | brass Messing | brass Messing | brass Messing | brass Messing |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex |
| IPS18-S8PO35-A2P | IPS18-S8PO48-A12 | IPS18-S8PO55-A2P | IPS18-S8PO79-A12 | IPS18-N8PO40-A2P |
| IPS18-S8PC35-A2P | IPS18-S8PC48-A12 | IPS18-S8PC55-A2P | IPS18-S8PC79-A12 | IPS18-N8PC40-A2P |
| IPS18-S8PCO35-A2P | IPS18-S8PCO48-A12 | IPS18-S8PCO55-A2P | IPS18-S8PCO79-A12 | |
| IPS18-S8NO35-A2P | IPS18-S8NO48-A12 | IPS18-S8NO55-A2P | IPS18-S8NO79-A12 | IPS18-N8NO40-A2P |
| IPS18-S8NC35-A2P | IPS18-S8NC48-A12 | IPS18-S8NC55-A2P | IPS18-S8NC79-A12 | IPS18-N8NC40-A2P |
| IPS18-S8NCO35-A2P | IPS18-S8NCO48-A12 | IPS18-S8NCO55-A2P | IPS18-S8NCO79-A12 | |

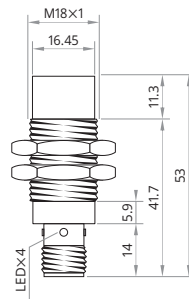
Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

non-flush
nicht bündig
M18×1 | 8 mm



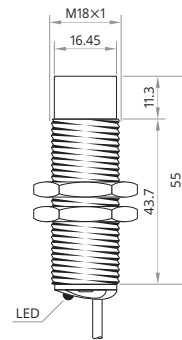
standard
Standard



non-flush
nicht bündig
M18×1 | 8 mm



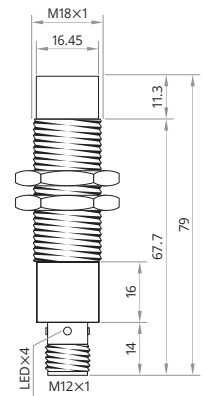
standard
Standard



non-flush
nicht bündig
M18×1 | 8 mm



standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 8 mm | | 8 mm | | 8 mm | |
|-----------------------------|------------------------|-------------------------------|-------------|-------------------------------|------------|-------------------------------|-------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Current consumption | Stromverbrauch | <8 mA | | <8 mA | | <8 mA | |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | | 200 mA | | 200 mA | |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| Switching frequency | Schaltfrequenz | 500 Hz | | 500 Hz | | 500 Hz | |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| Operating temperature | Betriebstemperatur | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| Protection class | Schutzklasse | IP67 | | IP67 | | IP67 | |
| Sensing face material | Sensorflächenwerkstoff | PBT | | PBT | | PBT | |
| Housing material | Gehäusewerkstoff | brass | Messing | brass | Messing | brass | Messing |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in | integriert | built-in | integriert |
| Connection | Anschluss | conn. M12 | Stecker M12 | PVC, ultra-flex | | conn. M12 | Stecker M12 |
| Article code PNP, NO | ┌─ | IPS18-N8PO53-A12 | | IPS18-N8PO55-A2P | | IPS18-N8PO79-A12 | |
| Article code PNP, NC | └─ | IPS18-N8PC53-A12 | | IPS18-N8PC55-A2P | | IPS18-N8PC79-A12 | |
| Article code PNP, NO+NC | ┌─+└─ | | | | | | |
| Article code NPN, NO | ┌─ | IPS18-N8NO53-A12 | | IPS18-N8NO55-A2P | | IPS18-N8NO79-A12 | |
| Article code NPN, NC | └─ | IPS18-N8NC53-A12 | | IPS18-N8NC55-A2P | | IPS18-N8NC79-A12 | |
| Article code NPN, NO+NC | ┌─+└─ | | | | | | |

Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

semi-flush
quasi-bündig
M18×1 | 12 mm



semi-flush
quasi-bündig
M18×1 | 12 mm



semi-flush
quasi-bündig
M18×1 | 12 mm



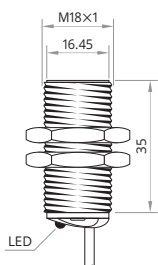
semi-flush
quasi-bündig
M18×1 | 12 mm



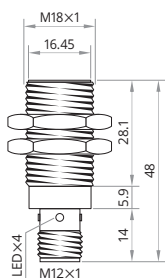
semi-flush
quasi-bündig
M18×1 | 15 mm



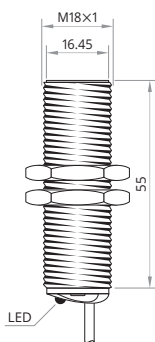
extended
erweitert



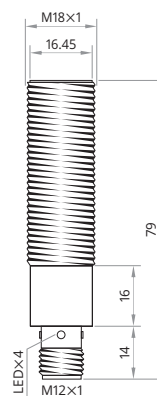
extended
erweitert



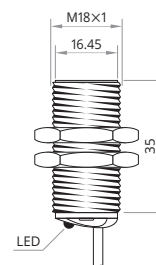
extended
erweitert



extended
erweitert



advanced
Hochleistung



| 12 mm | 12 mm | 12 mm | 12 mm | 15 mm |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <8 mA | <8 mA | <8 mA | <8 mA | <8 mA |
| 200 mA | 200 mA | 200 mA | 200 mA | 200 mA |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| 300 Hz | 300 Hz | 300 Hz | 300 Hz | 300 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| brass Messing | brass Messing | brass Messing | brass Messing | brass Messing |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex |
| IPS18-S12PO35-A2P | IPS18-S12PO48-A12 | IPS18-S12PO55-A2P | IPS18-S12PO79-A12 | IPS18-S15PO35-A2P |
| IPS18-S12PC35-A2P | IPS18-S12PC48-A12 | IPS18-S12PC55-A2P | IPS18-S12PC79-A12 | IPS18-S15PC35-A2P |
| IPS18-S12NO35-A2P | IPS18-S12NO48-A12 | IPS18-S12NO55-A2P | IPS18-S12NO79-A12 | IPS18-S15NO35-A2P |
| IPS18-S12NC35-A2P | IPS18-S12NC48-A12 | IPS18-S12NC55-A2P | IPS18-S12NC79-A12 | IPS18-S15NC35-A2P |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

semi-flush
quasi-bündig
M18×1 | 15 mm



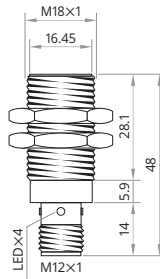
semi-flush
quasi-bündig
M18×1 | 15 mm



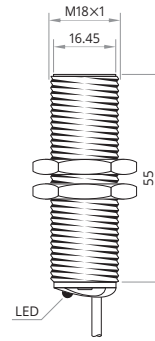
semi-flush
quasi-bündig
M18×1 | 15 mm



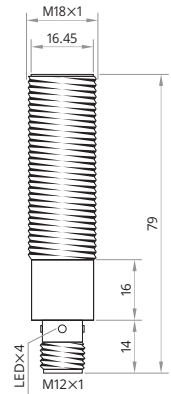
advanced
Hochleistung



advanced
Hochleistung



advanced
Hochleistung



| Sensing distance S_n | Schaltabstand S_n | 15 mm | 15 mm | 15 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 300 Hz | 300 Hz | 300 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 |
| Article code PNP, NO | ┌— | IPS18-S15PO48-A12 | IPS18-S15PO55-A2P | IPS18-S15PO79-A12 |
| Article code PNP, NC | └— | IPS18-S15PC48-A12 | IPS18-S15PC55-A2P | IPS18-S15PC79-A12 |
| Article code PNP, NO+NC | ┌—+└— | | | |
| Article code NPN, NO | ┌— | IPS18-S15NO48-A12 | IPS18-S15NO55-A2P | IPS18-S15NO79-A12 |
| Article code NPN, NC | └— | IPS18-S15NC48-A12 | IPS18-S15NC55-A2P | IPS18-S15NC79-A12 |
| Article code NPN, NO+NC | ┌—+└— | | | |

Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

non-flush
nicht bündig
M18x1 | 16 mm



non-flush
nicht bündig
M18x1 | 16 mm



non-flush
nicht bündig
M18x1 | 16 mm



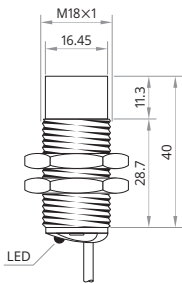
non-flush
nicht bündig
M18x1 | 16 mm



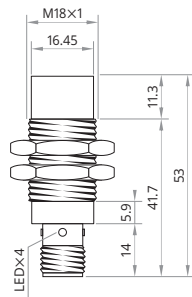
non-flush
nicht bündig
M18x1 | 20 mm



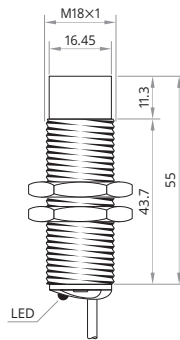
increased
erhöht



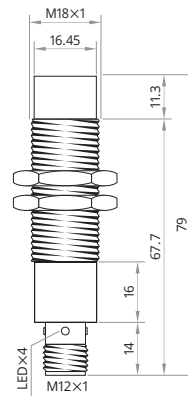
increased
erhöht



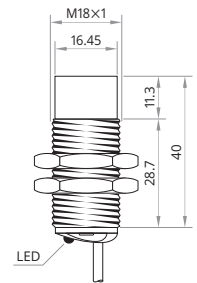
increased
erhöht



increased
erhöht



extended
erweitert



16 mm

10...30 V_{DC}

built-in integriert

<8 mA

200 mA

built-in integriert

<1.5 V @ 200 mA

150 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

PVC, ultra-flex

IPS18-N16PO40-A2P

IPS18-N16PC40-A2P

IPS18-N16PCO40-A2P

IPS18-N16NO40-A2P

IPS18-N16NC40-A2P

IPS18-N16NCO40-A2P

16 mm

10...30 V_{DC}

built-in integriert

<8 mA

200 mA

built-in integriert

<1.5 V @ 200 mA

150 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

conn. M12 Stecker M12

IPS18-N16PO53-A12

IPS18-N16PC53-A12

IPS18-N16PCO53-A12

IPS18-N16NO53-A12

IPS18-N16NC53-A12

IPS18-N16NCO53-A12

16 mm

10...30 V_{DC}

built-in integriert

<8 mA

200 mA

built-in integriert

<1.5 V @ 200 mA

150 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

PVC, ultra-flex

IPS18-N16PO55-A2P

IPS18-N16PC55-A2P

IPS18-N16PCO55-A2P

IPS18-N16NO55-A2P

IPS18-N16NC55-A2P

IPS18-N16NCO55-A2P

16 mm

10...30 V_{DC}

built-in integriert

<8 mA

200 mA

built-in integriert

<1.5 V @ 200 mA

150 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

conn. M12 Stecker M12

IPS18-N16PO79-A12

IPS18-N16PC79-A12

IPS18-N16PCO79-A12

IPS18-N16NO79-A12

IPS18-N16NC79-A12

IPS18-N16NCO79-A12

20 mm

10...30 V_{DC}

built-in integriert

<8 mA

200 mA

built-in integriert

<1.5 V @ 200 mA

100 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

PVC, ultra-flex

IPS18-N20PO40-A2P

IPS18-N20PC40-A2P

IPS18-N20NO40-A2P

IPS18-N20NC40-A2P

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

non-flush
nicht bündig
M18×1 | 20 mm



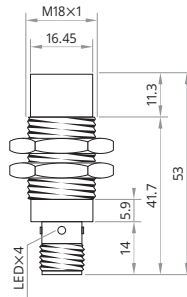
non-flush
nicht bündig
M18×1 | 20 mm



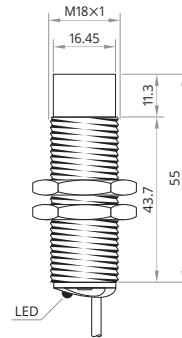
non-flush
nicht bündig
M18×1 | 20 mm



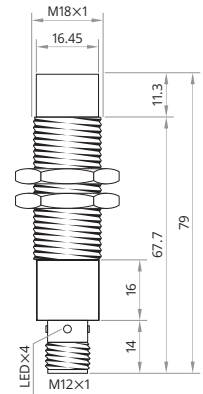
extended
erweitert



extended
erweitert



extended
erweitert



| Sensing distance S_n | Schaltabstand S_n | 20 mm | 20 mm | 20 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 100 Hz | 100 Hz | 100 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 |
| Article code PNP, NO | ┌─ | IPS18-N20PO53-A12 | IPS18-N20PO55-A2P | IPS18-N20PO79-A12 |
| Article code PNP, NC | └─ | IPS18-N20PC53-A12 | IPS18-N20PC55-A2P | IPS18-N20PC79-A12 |
| Article code PNP, NO+NC | ┌─+└─ | | | |
| Article code NPN, NO | ┌─ | IPS18-N20NO53-A12 | IPS18-N20NO55-A2P | IPS18-N20NO79-A12 |
| Article code NPN, NC | └─ | IPS18-N20NC53-A12 | IPS18-N20NC55-A2P | IPS18-N20NC79-A12 |
| Article code NPN, NO+NC | ┌─+└─ | | | |

Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

flush
bündig
M30×1.5 | 10 mm



flush
bündig
M30×1.5 | 10 mm



flush
bündig
M30×1.5 | 10 mm



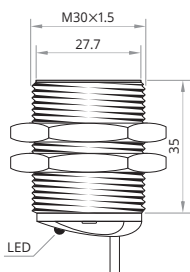
flush
bündig
M30×1.5 | 10 mm



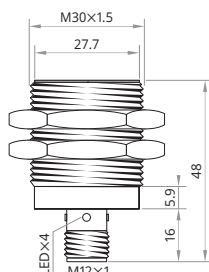
non-flush
nicht bündig
M30×1.5 | 15 mm



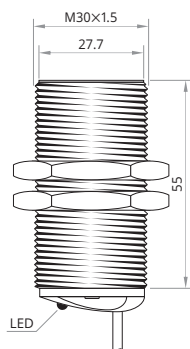
standard
Standard



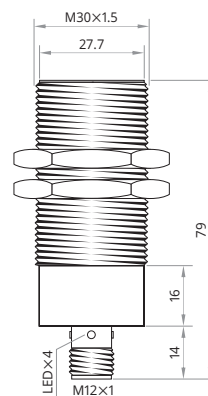
standard
Standard



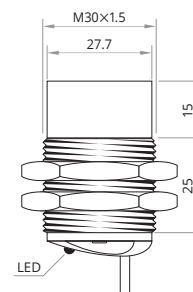
standard
Standard



standard
Standard



standard
Standard



| 10 mm | 10 mm | 10 mm | 10 mm | 15 mm |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <8 mA | <8 mA | <8 mA | <8 mA | <8 mA |
| 200 mA | 200 mA | 200 mA | 200 mA | 200 mA |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| 300 Hz | 300 Hz | 300 Hz | 300 Hz | 150 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| brass Messing | brass Messing | brass Messing | brass Messing | brass Messing |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex |
| IPS30-S10PO35-A2P | IPS30-S10PO48-A12 | IPS30-S10PO55-A2P | IPS30-S10PO79-A12 | IPS30-N15PO40-A2P |
| IPS30-S10PC35-A2P | IPS30-S10PC48-A12 | IPS30-S10PC55-A2P | IPS30-S10PC79-A12 | IPS30-N15PC40-A2P |
| IPS30-S10NO35-A2P | IPS30-S10NO48-A12 | IPS30-S10NO55-A2P | IPS30-S10NO79-A12 | IPS30-N15NO40-A2P |
| IPS30-S10NC35-A2P | IPS30-S10NC48-A12 | IPS30-S10NC55-A2P | IPS30-S10NC79-A12 | IPS30-N15NC40-A2P |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

non-flush
nicht bündig
M30×1.5 | 15 mm



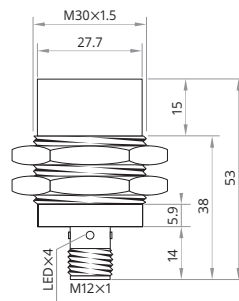
non-flush
nicht bündig
M30×1.5 | 15 mm



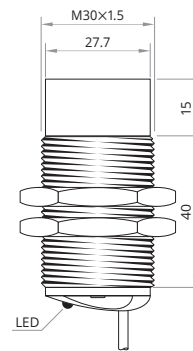
non-flush
nicht bündig
M30×1.5 | 15 mm



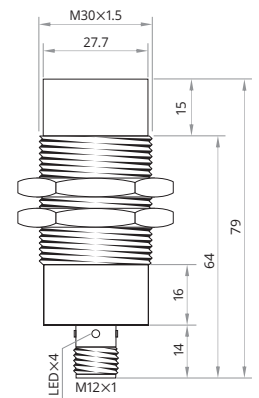
standard
Standard



standard
Standard



standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 15 mm | 15 mm | 15 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 150 Hz | 150 Hz | 150 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 |
| Article code PNP, NO | ┌─ | IPS30-N15PO53-A12 | IPS30-N15PO55-A2P | IPS30-N15PO79-A12 |
| Article code PNP, NC | └─ | IPS30-N15PC53-A12 | IPS30-N15PC55-A2P | IPS30-N15PC79-A12 |
| Article code PNP, NO+NC | ┌─+└─ | | | |
| Article code NPN, NO | ┌─ | IPS30-N15NO53-A12 | IPS30-N15NO55-A2P | IPS30-N15NO79-A12 |
| Article code NPN, NC | └─ | IPS30-N15NC53-A12 | IPS30-N15NC55-A2P | IPS30-N15NC79-A12 |
| Article code NPN, NO+NC | ┌─+└─ | | | |

flush
bündig
M30×1.5 | 16 mm



flush
bündig
M30×1.5 | 16 mm



flush
bündig
M30×1.5 | 16 mm



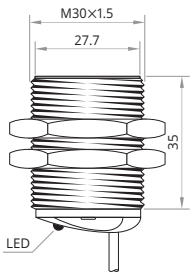
flush
bündig
M30×1.5 | 16 mm



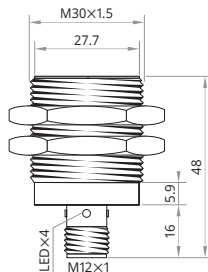
semi-flush
quasi-bündig
M30×1.5 | 22 mm



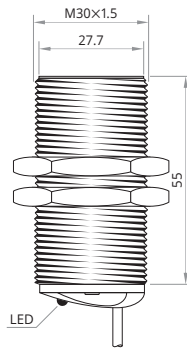
increased
erhöht



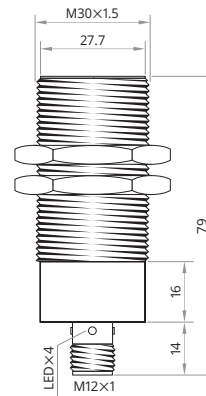
increased
erhöht



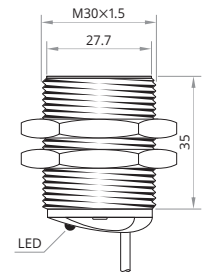
increased
erhöht



increased
erhöht



extended
erweitert



| 16 mm | 16 mm | 16 mm | 16 mm | 22 mm |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <8 mA | <8 mA | <8 mA | <8 mA | <8 mA |
| 200 mA | 200 mA | 200 mA | 200 mA | 200 mA |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| 150 Hz | 150 Hz | 150 Hz | 150 Hz | 150 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| brass Messing | brass Messing | brass Messing | brass Messing | brass Messing |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex |
| IPS30-S16PO35-A2P | IPS30-S16PO48-A12 | IPS30-S16PO55-A2P | IPS30-S16PO79-A12 | IPS30-S22PO35-A2P |
| IPS30-S16PC35-A2P | IPS30-S16PC48-A12 | IPS30-S16PC55-A2P | IPS30-S16PC79-A12 | IPS30-S22PC35-A2P |
| IPS30-S16PCO35-A2P | IPS30-S16PCO48-A12 | IPS30-S16PCO55-A2P | | |
| IPS30-S16NO35-A2P | IPS30-S16NO48-A12 | IPS30-S16NO55-A2P | IPS30-S16NO79-A12 | IPS30-S22NO35-A2P |
| IPS30-S16NC35-A2P | IPS30-S16NC48-A12 | IPS30-S16NC55-A2P | IPS30-S16NC79-A12 | IPS30-S22NC35-A2P |
| IPS30-S16NCO35-A2P | IPS30-S16NCO48-A12 | IPS30-S16NCO55-A2P | | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

semi-flush
quasi-bündig
M30×1.5 | 22 mm



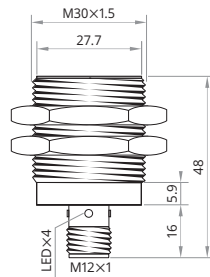
semi-flush
quasi-bündig
M30×1.5 | 22 mm



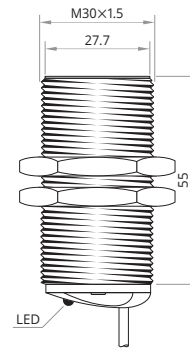
semi-flush
quasi-bündig
M30×1.5 | 22 mm



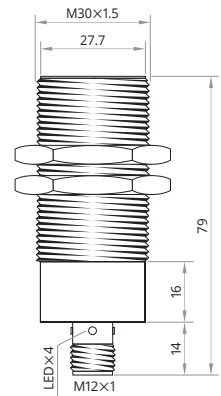
extended
erweitert



extended
erweitert



extended
erweitert



| Sensing distance S_n | Schaltabstand S_n | 22 mm | 22 mm | 22 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 150 Hz | 150 Hz | 150 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 |
| Article code PNP, NO | ┌─ | IPS30-S22PO48-A12 | IPS30-S22PO55-A2P | IPS30-S22PO79-A12 |
| Article code PNP, NC | └─ | IPS30-S22PC48-A12 | IPS30-S22PC55-A2P | IPS30-S22PC79-A12 |
| Article code PNP, NO+NC | ┌─+└─ | | | |
| Article code NPN, NO | ┌─ | IPS30-S22NO48-A12 | IPS30-S22NO55-A2P | IPS30-S22NO79-A12 |
| Article code NPN, NC | └─ | IPS30-S22NC48-A12 | IPS30-S22NC55-A2P | IPS30-S22NC79-A12 |
| Article code NPN, NO+NC | ┌─+└─ | | | |

Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

non-flush
nicht bündig
M30×1.5 | 25 mm



non-flush
nicht bündig
M30×1.5 | 25 mm



non-flush
nicht bündig
M30×1.5 | 25 mm



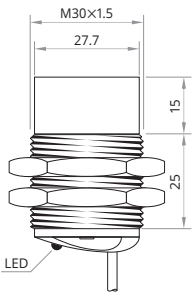
non-flush
nicht bündig
M30×1.5 | 25 mm



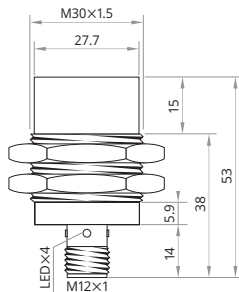
non-flush
nicht bündig
M30×1.5 | 40 mm



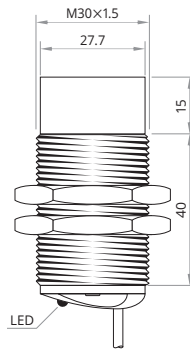
increased
erhöht



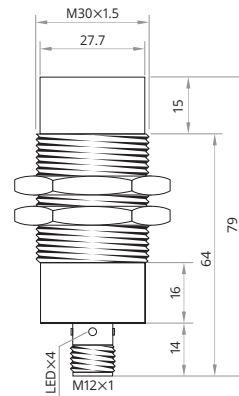
increased
erhöht



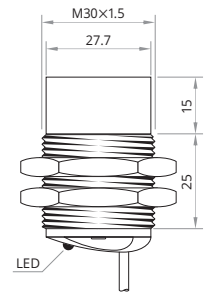
increased
erhöht



increased
erhöht



extended
erweitert



| 25 mm | 25 mm | 25 mm | 25 mm | 40 mm |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <8 mA | <8 mA | <8 mA | <8 mA | <8 mA |
| 200 mA | 200 mA | 200 mA | 200 mA | 200 mA |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| 100 Hz | 100 Hz | 100 Hz | 100 Hz | 100 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| brass Messing | brass Messing | brass Messing | brass Messing | brass Messing |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex |
| IPS30-N25PO40-A2P | IPS30-N25PO53-A12 | IPS30-N25PO55-A2P | IPS30-N25PO79-A12 | IPS30-N40PO40-A2P |
| IPS30-N25PC40-A2P | IPS30-N25PC53-A12 | IPS30-N25PC55-A2P | IPS30-N25PC79-A12 | IPS30-N40PC40-A2P |
| | IPS30-N25PCO53-A12 | IPS30-N25PCO55-A2P | IPS30-N25PCO79-A12 | |
| IPS30-N25NO40-A2P | IPS30-N25NO53-A12 | IPS30-N25NO55-A2P | IPS30-N25NO79-A12 | IPS30-N40NO40-A2P |
| IPS30-N25NC40-A2P | IPS30-N25NC53-A12 | IPS30-N25NC55-A2P | IPS30-N25NC79-A12 | IPS30-N40NC40-A2P |
| | IPS30-N25NCO53-A12 | IPS30-N25NCO55-A2P | IPS30-N25NCO79-A12 | |

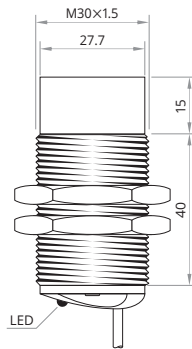
Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

non-flush
nicht bündig
M30×1.5 | 40 mm



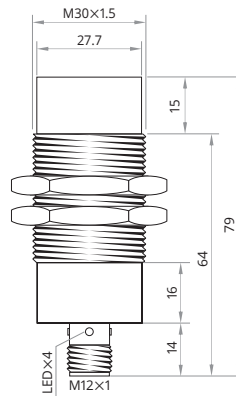
extended
erweitert



non-flush
nicht bündig
M30×1.5 | 40 mm



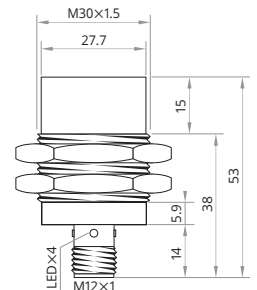
extended
erweitert



non-flush
nicht bündig
M30×1.5 | 40 mm



extended
erweitert



| Sensing distance S_n | Schaltabstand S_n | 40 mm | 40 mm | 40 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 100 Hz | 100 Hz | 100 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | conn. M12 Stecker M12 | conn. M12 Stecker M12 |
| Article code PNP, NO | ┌─ | IPS30-N40PO55-A2P | IPS30-N40PO79-A12 | IPS30-N40PO53-A12 |
| Article code PNP, NC | └─ | IPS30-N40PC55-A2P | IPS30-N40PC79-A12 | IPS30-N40PC53-A12 |
| Article code PNP, NO+NC | ┌─+└─ | | | |
| Article code NPN, NO | ┌─ | IPS30-N40NO55-A2P | IPS30-N40NO79-A12 | IPS30-N40NO53-A12 |
| Article code NPN, NC | └─ | IPS30-N40NC55-A2P | IPS30-N40NC79-A12 | IPS30-N40NC53-A12 |
| Article code NPN, NO+NC | ┌─+└─ | | | |

non-flush
nicht bündig
M30×1.5 | 50 mm



non-flush
nicht bündig
M30×1.5 | 50 mm



non-flush
nicht bündig
M30×1.5 | 50 mm



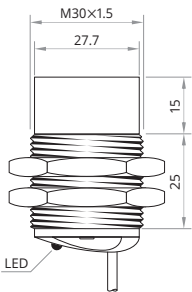
non-flush
nicht bündig
M30×1.5 | 50 mm



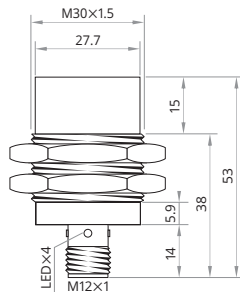
flush
bündig
16×28×12 mm | 1 mm



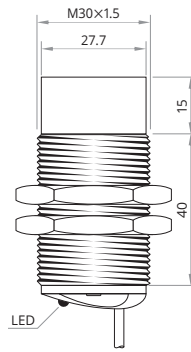
advanced
Hochleistung



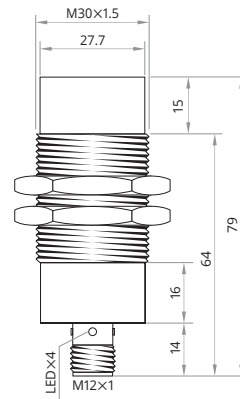
advanced
Hochleistung



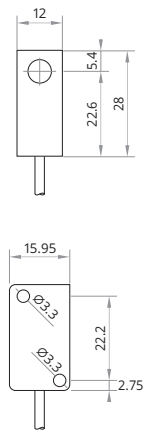
advanced
Hochleistung



advanced
Hochleistung



standard
Standard



| 50 mm | | 50 mm | | 50 mm | | 50 mm | | 1 mm | |
|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|
| 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | | 10...30 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 100 Hz | | 100 Hz | | 100 Hz | | 100 Hz | | 2000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| brass | Messing | brass | Messing | brass | Messing | brass | Messing | PBT | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| PVC, ultra-flex | | conn. M12 | Stecker M12 | PVC, ultra-flex | | conn. M12 | Stecker M12 | PVC, ultra-flex | |
| IPS30-N50PO40-A2P | | IPS30-N50PO53-A12 | | IPS30-N50PO55-A2P | | IPS30-N50PO79-A12 | | IPS1628-S1POS-A2P | |
| IPS30-N50PC40-A2P | | IPS30-N50PC53-A12 | | IPS30-N50PC55-A2P | | IPS30-N50PC79-A12 | | IPS1628-S1PCS-A2P | |
| IPS30-N50NO40-A2P | | IPS30-N50NO53-A12 | | IPS30-N50NO55-A2P | | IPS30-N50NO79-A12 | | IPS1628-S1NOS-A2P | |
| IPS30-N50NC40-A2P | | IPS30-N50NC53-A12 | | IPS30-N50NC55-A2P | | IPS30-N50NC79-A12 | | IPS1628-S1NCS-A2P | |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

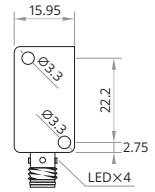
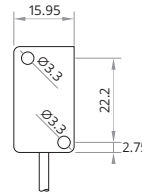
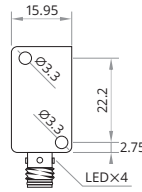
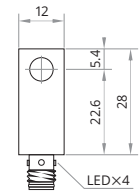
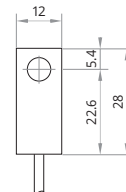
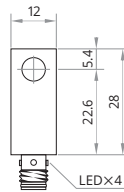
flush bündig $16 \times 28 \times 12 \text{ mm}$ | 1 mm
 non-flush nicht bündig $16 \times 28 \times 12 \text{ mm}$ | 2 mm
 non-flush nicht bündig $16 \times 28 \times 12 \text{ mm}$ | 2 mm



standard
Standard

standard
Standard

standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 1 mm | 2 mm | 2 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 2000 Hz | 2000 Hz | 2000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | PBT | PBT | PBT |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | conn. M8 Stecker M8 | PVC, ultra-flex | conn. M8 Stecker M8 |
| Article code PNP, NO | ┌─ | IPS1628-S1POS-A8 | IPS1628-N2POS-A2P | IPS1628-N2POS-A8 |
| Article code PNP, NC | └─ | IPS1628-S1PCS-A8 | IPS1628-N2PCS-A2P | IPS1628-N2PCS-A8 |
| Article code PNP, NO+NC | ┌─+└─ | | | |
| Article code NPN, NO | ┌─ | IPS1628-S1NOS-A8 | IPS1628-N2NOS-A2P | IPS1628-N2NOS-A8 |
| Article code NPN, NC | └─ | IPS1628-S1NCS-A8 | IPS1628-N2NCS-A2P | IPS1628-N2NCS-A8 |
| Article code NPN, NO+NC | ┌─+└─ | | | |

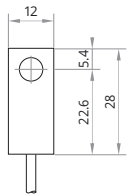
Mind O≠0, I≠I≠1, S≠5, B≠8.

O≠0, I≠I≠1, S≠5, B≠8 beachten.

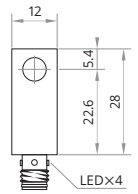
flush bündig | 16x28x12 mm | 2 mm
 flush bündig | 16x28x12 mm | 2 mm
 semi-flush quasi-bündig | 16x28x12 mm | 3 mm
 semi-flush quasi-bündig | 16x28x12 mm | 3 mm
 non-flush nicht bündig | 16x28x12 mm | 4 mm



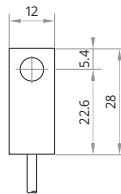
increased erhöht



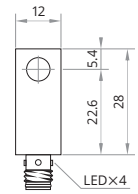
increased erhöht



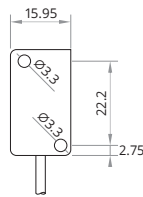
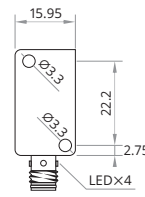
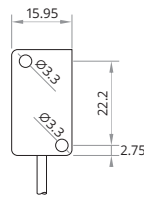
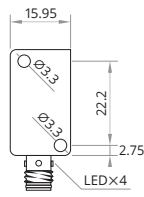
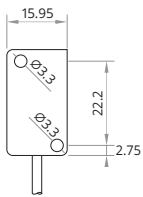
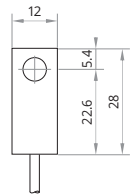
extended erweitert



extended erweitert



increased erhöht



| 2 mm | 2 mm | 3 mm | 3 mm | 4 mm |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <8 mA | <8 mA | <8 mA | <8 mA | <8 mA |
| 200 mA | 200 mA | 200 mA | 200 mA | 200 mA |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| 2000 Hz | 2000 Hz | 2000 Hz | 2000 Hz | 2000 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| PBT | PBT | PBT | PBT | PBT |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| PVC, ultra-flex | conn. M8 Stecker M8 | PVC, ultra-flex | conn. M8 Stecker M8 | PVC, ultra-flex |
| IPS1628-S2POS-A2P | IPS1628-S2POS-A8 | IPS1628-S3POS-A2P | IPS1628-S3POS-A8 | IPS1628-N4POS-A2P |
| IPS1628-S2PCS-A2P | IPS1628-S2PCS-A8 | IPS1628-S3PCS-A2P | IPS1628-S3PCS-A8 | IPS1628-N4PCS-A2P |
| IPS1628-S2NOS-A2P | IPS1628-S2NOS-A8 | IPS1628-S3NOS-A2P | IPS1628-S3NOS-A8 | IPS1628-N4NOS-A2P |
| IPS1628-S2NCS-A2P | IPS1628-S2NCS-A8 | IPS1628-S3NCS-A2P | IPS1628-S3NCS-A8 | IPS1628-N4NCS-A2P |

Inductive Proximity Switch 3-Wire DC

Induktive Näherungsschalter 3-Leiter DC

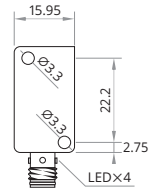
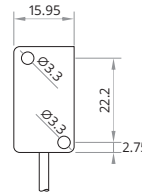
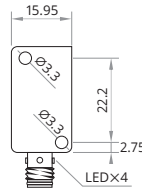
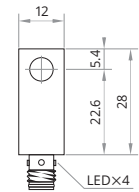
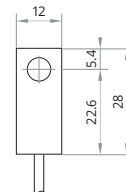
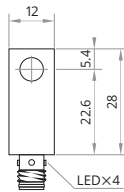
non-flush nicht bündig | 16×28×12 mm | 4 mm
 non-flush nicht bündig | 16×28×12 mm | 6 mm
 non-flush nicht bündig | 16×28×12 mm | 6 mm



increased
erhöht

extended
erweitert

extended
erweitert



| Sensing distance S_n | Schaltabstand S_n | 4 mm | 6 mm | 6 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | < 8 mA | < 8 mA | < 8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | < 1.5 V @ 200 mA | < 1.5 V @ 200 mA | < 1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 2000 Hz | 2000 Hz | 2000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | PBT | PBT | PBT |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | conn. M8 Stecker M8 | PVC, ultra-flex | conn. M8 Stecker M8 |
| Article code PNP, NO | ┌─ | IPS1628-N4POS-A8 | IPS1628-N6POS-A2P | IPS1628-N6POS-A8 |
| Article code PNP, NC | └─ | IPS1628-N4PCS-A8 | IPS1628-N6PCS-A2P | IPS1628-N6PCS-A8 |
| Article code PNP, NO+NC | ┌─+└─ | | | |
| Article code NPN, NO | ┌─ | IPS1628-N4NOS-A8 | IPS1628-N6NOS-A2P | IPS1628-N6NOS-A8 |
| Article code NPN, NC | └─ | IPS1628-N4NCS-A8 | IPS1628-N6NCS-A2P | IPS1628-N6NCS-A8 |
| Article code NPN, NO+NC | ┌─+└─ | | | |

Mind O=0, I=I≠1, S=5, B=8.

O=0, I=I≠1, S=5, B=8 beachten.

flush
bündig
40×40 mm | 15 mm

flush
bündig
40×40 mm | 20 mm

semi-flush
quasi-bündig
40×40 mm | 25 mm

non-flush
nicht bündig
40×40 mm | 30 mm

non-flush
nicht bündig
40×40 mm | 40 mm



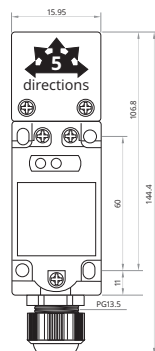
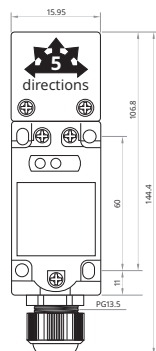
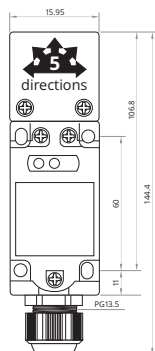
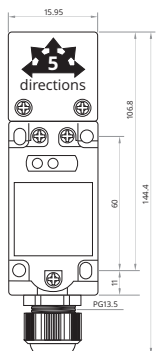
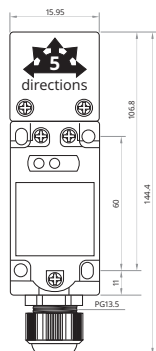
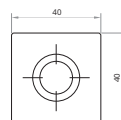
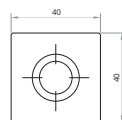
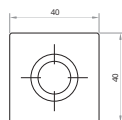
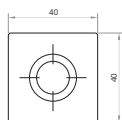
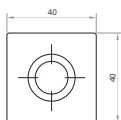
standard
Standard

increased
erhöht

increased
erhöht

increased
erhöht

extended
erweitert



15 mm

20 mm

25 mm

30 mm

40 mm

| | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} | 10...30 V _{DC} |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| < 11 mA | < 11 mA | < 11 mA | < 11 mA | < 11 mA |
| 200 mA | 200 mA | 200 mA | 200 mA | 200 mA |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <2 V @ 200 mA | <2 V @ 200 mA | <2 V @ 200 mA | <2 V @ 200 mA | <2 V @ 200 mA |
| 120 Hz | 120 Hz | 120 Hz | 120 Hz | 120 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| PBT | PBT | PBT | PBT | PBT |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| terminal Klemme | terminal Klemme | terminal Klemme | terminal Klemme | terminal Klemme |

IPS40-S15PCOL-PG13

IPS40-S20PCOL-PG13

IPS40-S25PCOL-PG13

IPS40-N30PCOL-PG13

IPS40-N40PCOL-PG13

IPS40-S15NCOL-PG13

IPS40-S20NCOL-PG13

IPS40-S25NCOL-PG13

IPS40-N30NCOL-PG13

IPS40-N40NCOL-PG13



Inductive Sensors 2-Wire DC · AC · UC · NAMUR

For installations which benefit from a sensor with a 2-wire connection, for example in order to replace mechanical limit switches in a simplified or existing wiring, XECRO offers sensing distances of the Standard and Extended Class up to 30 mm for AC, DC, UC, and NAMUR.

2-Wire Series sensors according to the NAMUR specification (DIN 19234) are available in any common diameter as well as in most space saving housing lengths.

Für Installationen, bei denen sich Sensoren mit 2-Leiter-Anschluss lohnen, zum Beispiel um mechanische Endschalter bei vereinfachter oder vorhandener Verkabelung zu ersetzen, bietet XECRO Schaltabstände in den Klassen Standard und Erweitert bis zu 30 mm für Gleichstrom, Wechselstrom, Allstrom und NAMUR.

Sensoren der 2-Leiter-Baureihen gemäß der NAMUR-Spezifikation (DIN 19234) gibt es in jedem gängigen Durchmesser und auch in sehr platzsparenden Gehäuselängen.

Inductive Proximity Switch 2-Wire Direct Current

Induktive Näherungsschalter 2-Leiter Gleichstrom

flush
bündig
Ø 6.5 mm | 2 mm



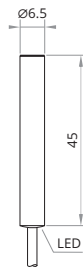
flush
bündig
Ø 6.5 mm | 2 mm



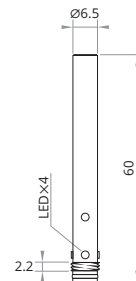
flush
bündig
Ø 6.5 mm | 2 mm



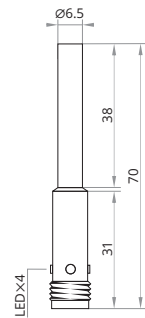
increased
erhöht



increased
erhöht



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 2 mm | 2 mm | 2 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...55 V _{DC} | 10...55 V _{DC} | 10...55 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 2000 Hz | 2000 Hz | 2000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | conn. M8 Stecker M8 | conn. M12 Stecker M12 |
| Article code NO | ┌ | IPSD6-S2DO45-A2P | IPSD6-S2DO60-A8 | IPSD6-S2DO70-A12 |
| Article code NC | └ | IPSD6-S2DC45-A2P | IPSD6-S2DC60-A8 | IPSD6-S2DC70-A12 |

Mind O=0, I=I≠1, S=5, B=8.

O=0, I=I≠1, S=5, B=8 beachten.

* Minimum order quantity 10 units.

* Mindestbestellmenge 10 Stück.

non-flush
nicht bündig
Ø 6.5 mm | 4 mm



non-flush
nicht bündig
Ø 6.5 mm | 4 mm



non-flush
nicht bündig
Ø 6.5 mm | 4 mm



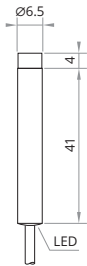
flush
bündig
M8×1 | 2 mm



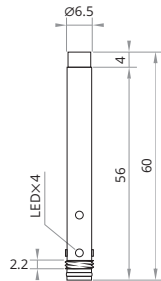
flush
bündig
M8×1 | 2 mm



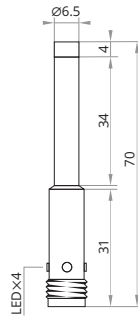
increased
erhöht



increased
erhöht



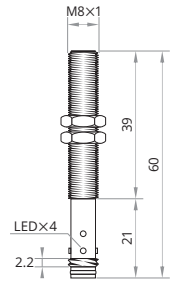
increased
erhöht



increased
erhöht



increased
erhöht



| 4 mm | | 4 mm | | 4 mm | | 2 mm | | 2 mm | |
|-------------------------------|------------|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|-------------------------------|------------|
| 10...55 V _{DC} | | 10...55 V _{DC} | | 10...55 V _{DC} | | 10...55 V _{DC} | | 10...55 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 2000 Hz | | 2000 Hz | | 2000 Hz | | 2000 Hz | | 2000 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A | SS 1.4301 | V2A |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| PVC, ultra-flex | | conn. M8 | Stecker M8 | conn. M12 | Stecker M12 | PVC, ultra-flex | | conn. M8 | Stecker M8 |
| IPSD6-N4DO45-A2P | | IPSD6-N4DO60-A8 | | IPSD6-N4DO70-A12 | | IPS8-S2DO45-A2P | | IPS8-S2DO60-A8 | |
| IPSD6-N4DC45-A2P | | IPSD6-N4DC60-A8 | | IPSD6-N4DC70-A12 | | IPS8-S2DC45-A2P | | IPS8-S2DC60-A8 | |

Inductive Proximity Switch 2-Wire Direct Current

Induktive Näherungsschalter 2-Leiter Gleichstrom

flush
bündig
M8×1 | 2 mm



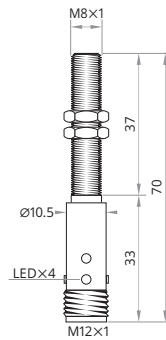
non-flush
nicht bündig
M8×1 | 4 mm



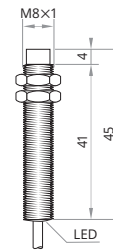
non-flush
nicht bündig
M8×1 | 4 mm



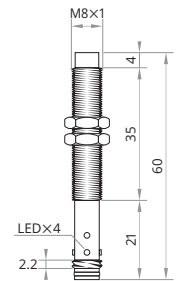
increased
erhöht



increased
erhöht



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 2 mm | 4 mm | 4 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...55 V _{DC} | 10...55 V _{DC} | 10...55 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 2000 Hz | 2000 Hz | 2000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | conn. M12 Stecker M12 | PVC, ultra-flex | conn. M8 Stecker M8 |
| Article code NO | └ | IPS8-S2DO70-A12 | IPS8-N4DO45-A2P | IPS8-N4DO60-A8 |
| Article code NC | └ | IPS8-S2DC70-A12 | IPS8-N4DC45-A2P | IPS8-N4DC60-A8 |

Mind O=0, I=I≠1, S=5, B=8.

O=0, I=I≠1, S=5, B=8 beachten.

* Minimum order quantity 10 units.

* Mindestbestellmenge 10 Stück.

non-flush
nicht bündig
M8x1 | 4 mm



flush
bündig
M12x1 | 4 mm



flush
bündig
M12x1 | 4 mm



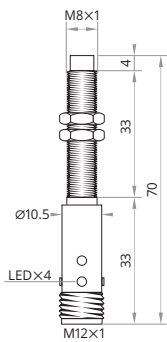
non-flush
nicht bündig
M12x1 | 8 mm



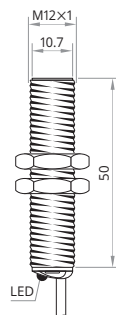
non-flush
nicht bündig
M12x1 | 8 mm



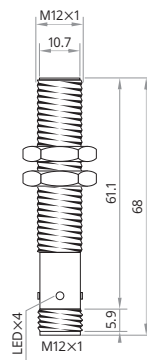
increased
erhöht



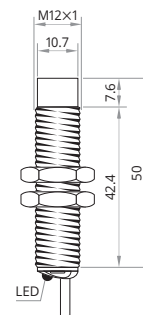
increased
erhöht



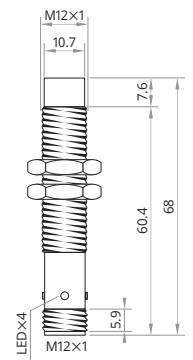
increased
erhöht



increased
erhöht



increased
erhöht



| 4 mm | | 4 mm | | 4 mm | | 8 mm | | 8 mm | |
|-------------------------------|-------------|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|-------------------------------|-------------|
| 10...55 V _{DC} | | 10...55 V _{DC} | | 10...55 V _{DC} | | 10...55 V _{DC} | | 10...55 V _{DC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 200 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 2000 Hz | | 1000 Hz | | 1000 Hz | | 1000 Hz | | 500 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| SS 1.4301 | V2A | brass | Messing | brass | Messing | brass | Messing | brass | Messing |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| conn. M12 | Stecker M12 | PVC, ultra-flex | | conn. M12 | Stecker M12 | PVC, ultra-flex | | conn. M12 | Stecker M12 |
| IPS8-N4DO70-A12 | | IPS12-S4DO50-A2P | | IPS12-S4DO68-A12 | | IPS12-N8DO50-A2P | | IPS12-N8DO68-A12 | |
| IPS8-N4DC70-A12 | | IPS12-S4DC50-A2P | | IPS12-S4DC68-A12 | | IPS12-N8DC50-A2P | | IPS12-N8DC68-A12 | |

Inductive Proximity Switch 2-Wire Direct Current

Induktive Näherungsschalter 2-Leiter Gleichstrom

flush
bündig
M18×1 | 8 mm



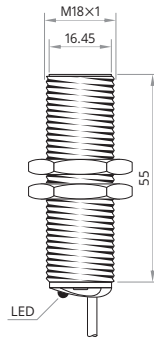
flush
bündig
M18×1 | 8 mm



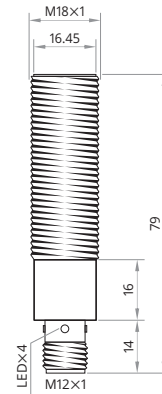
non-flush
nicht bündig
M18×1 | 16 mm



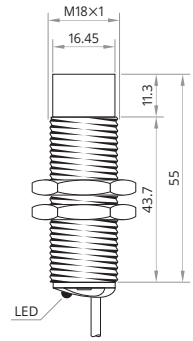
increased
erhöht



increased
erhöht



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 8 mm | | 8 mm | | 16 mm | |
|-----------------------------|------------------------|-------------------------------|------------|-------------------------------|-------------|-------------------------------|------------|
| Operating voltage | Betriebsspannung | 10...55 V _{DC} | | 10...55 V _{DC} | | 10...55 V _{DC} | |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Current consumption | Stromverbrauch | <8 mA | | <8 mA | | <8 mA | |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | | 200 mA | | 200 mA | |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in | integriert | built-in | integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| Switching frequency | Schaltfrequenz | 500 Hz | | 500 Hz | | 150 Hz | |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| Operating temperature | Betriebstemperatur | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| Protection class | Schutzklasse | IP67 | | IP67 | | IP67 | |
| Sensing face material | Sensorflächenwerkstoff | PBT | | PBT | | PBT | |
| Housing material | Gehäusewerkstoff | brass | Messing | brass | Messing | brass | Messing |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in | integriert | built-in | integriert |
| Connection | Anschluss | PVC, ultra-flex | | conn. M12 | Stecker M12 | PVC, ultra-flex | |
| Article code NO | ┌ | IPS18-S8DO55-A2P | | IPS18-S8DO79-A12 | | IPS18-N16DO55-A2P | |
| Article code NC | └ | IPS18-S8DC55-A2P | | IPS18-S8DC79-A12 | | IPS18-N16DC55-A2P | |

Mind O=0, I=I≠1, S=5, B=8.

O=0, I=I≠1, S=5, B=8 beachten.

* Minimum order quantity 10 units.

* Mindestbestellmenge 10 Stück.

non-flush
nicht bündig
M18×1 | 16 mm



flush
bündig
M30×1.5 | 16 mm



flush
bündig
M30×1.5 | 16 mm



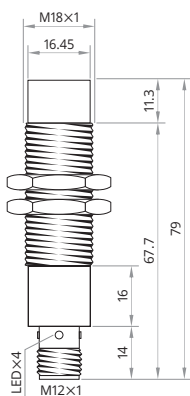
flush
bündig
M30×1.5 | 16 mm



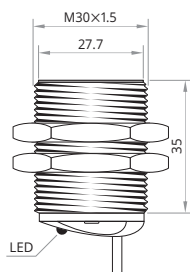
flush
bündig
M30×1.5 | 16 mm



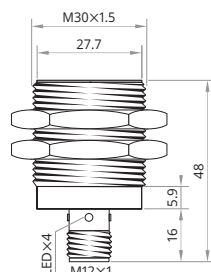
increased
erhöht



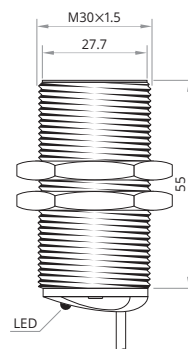
increased
erhöht



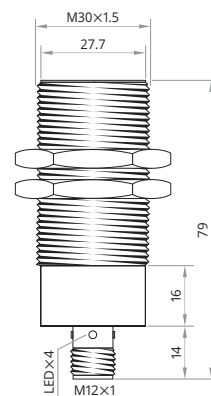
increased
erhöht



increased
erhöht



increased
erhöht



16 mm

10...55 V_{DC}

built-in integriert

<8 mA

200 mA

built-in integriert

<1.5 V @ 200 mA

150 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

conn. M12 Stecker M12

IPS18-N16DO79-A12

IPS18-N16DC79-A12

16 mm

10...55 V_{DC}

built-in integriert

<8 mA

200 mA

built-in integriert

<1.5 V @ 200 mA

150 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

PVC, ultra-flex

IPS30-S16DO35-A2P

IPS30-S16DC35-A2P

16 mm

10...55 V_{DC}

built-in integriert

<8 mA

200 mA

built-in integriert

<1.5 V @ 200 mA

150 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

conn. M12 Stecker M12

IPS30-S16DO48-A12

IPS30-S16DC48-A12

16 mm

10...55 V_{DC}

built-in integriert

<8 mA

200 mA

built-in integriert

<1.5 V @ 200 mA

150 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

PVC, ultra-flex

IPS30-S16DO55-A2P

IPS30-S16DC55-A2P

16 mm

10...55 V_{DC}

built-in integriert

<8 mA

200 mA

built-in integriert

<1.5 V @ 200 mA

150 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

conn. M12 Stecker M12

IPS30-S16DO79-A12

IPS30-S16DC79-A12

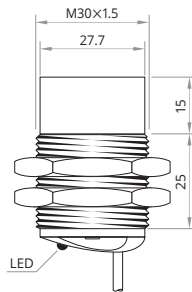
Inductive Proximity Switch 2-Wire Direct Current

Induktive Näherungsschalter 2-Leiter Gleichstrom

non-flush
nicht bündig
M30×1.5 | 25 mm



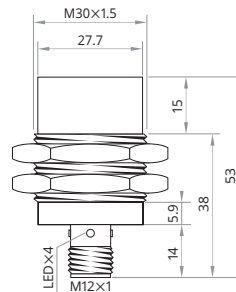
standard
Standard



non-flush
nicht bündig
M30×1.5 | 25 mm



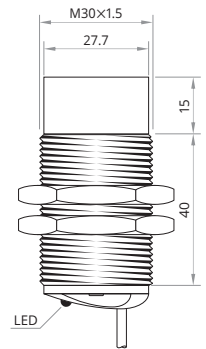
standard
Standard



non-flush
nicht bündig
M30×1.5 | 25 mm



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 25 mm | 25 mm | 25 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 10...55 V _{DC} | 10...55 V _{DC} | 10...55 V _{DC} |
| Reverse polarity protection | Verpolungsschutz | built-in | integriert | built-in |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in | integriert | built-in |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 150 Hz | 150 Hz | 100 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass | Messing | brass |
| Switching indicator | Schaltanzeige | built-in | integriert | built-in |
| Connection | Anschluss | PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex |
| Article code NO | ↙ | IPS30-N25DO40-A2P* | IPS30-N25DO53-A12* | IPS30-N25DO55-A2P |
| Article code NC | ↘ | IPS30-N25DC40-A2P* | IPS30-N25DC53-A12* | IPS30-N25DC55-A2P |

Mind O=0, I=I≠1, S=5, B=8.

O=0, I=I≠1, S=5, B=8 beachten.

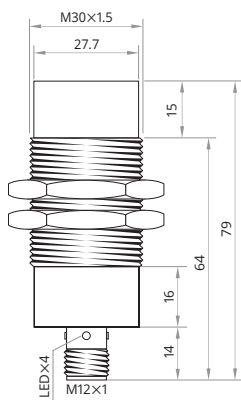
* Minimum order quantity 10 units.

* Mindestbestellmenge 10 Stück.

non-flush
nicht bündig
M30×1.5 | 25 mm

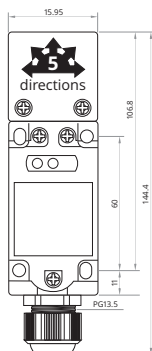
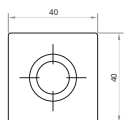


increased
erhöht



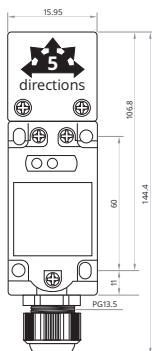
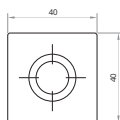
flush
bündig
40×40 mm | 15 mm

standard
Standard



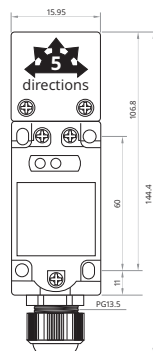
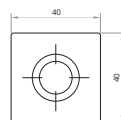
flush
bündig
40×40 mm | 20 mm

increased
erhöht



non-flush
nicht bündig
40×40 mm | 30 mm

increased
erhöht



| 25 mm | 15 mm | 20 mm | 30 mm |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 10...55 V _{DC} | 10...55 V _{DC} | 10...55 V _{DC} | 10...55 V _{DC} |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <8 mA | <11 mA | <11 mA | <11 mA |
| 200 mA | 200 mA | 200 mA | 200 mA |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <1.5 V @ 200 mA | <2 V @ 200 mA | <2 V @ 200 mA | <2 V @ 200 mA |
| 100 Hz | 120 Hz | 120 Hz | 120 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT |
| brass Messing | PBT | PBT | PBT |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| conn. M12 Stecker M12 | terminal Klemme | terminal Klemme | terminal Klemme |
| IPS30-N25DO79-A12 | IPS40-S15DOL-PG13* | IPS40-S20DOL-PG13 | IPS40-N30DOL-PG13 |
| IPS30-N25DC79-A12 | IPS40-S15DCL-PG13* | IPS40-S20DCL-PG13 | IPS40-N30DCL-PG13 |

Inductive Proximity Switch 2-Wire Universal Current

Induktive Näherungsschalter 2-Leiter Allstrom

flush
bündig
M12x1 | 4 mm



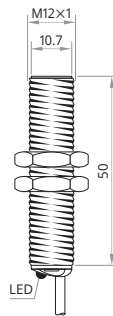
flush
bündig
M12x1 | 4 mm



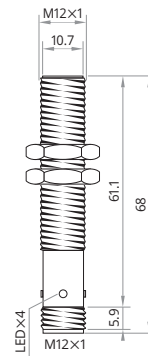
non-flush
nicht bündig
M12x1 | 4 mm



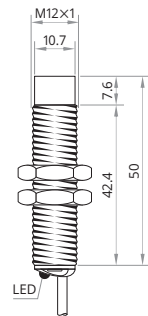
increased
erhöht



increased
erhöht



standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 4 mm | 4 mm | 4 mm |
|-----------------------------|------------------------|--|--|--|
| Operating voltage | Betriebsspannung | 24...255 V _{DC} V _{AC} | 24...255 V _{DC} V _{AC} | 24...255 V _{DC} V _{AC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 100 mA | 100 mA | 100 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 100 mA | <1.5 V @ 100 mA | <1.5 V @ 100 mA |
| Switching frequency | Schaltfrequenz | 1000 Hz | 1000 Hz | 1000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex |
| Article code NO | └─ | IPS12-S4UO50-A2P | IPS12-S4UO68-A12 | IPS12-N4UO50-A2P* |
| Article code NC | └┘ | IPS12-S4UC50-A2P | IPS12-S4UC68-A12 | IPS12-N4UC50-A2P* |

* Minimum order quantity 10 units.

Mind O=0, I=I=1, S=5, B=8.

O=0, I=I=1, S=5, B=8 beachten.

* Mindestbestellmenge 10 Stück.

non-flush
nicht bündig
M12x1 | 4 mm



flush
bündig
M18x1 | 8 mm



flush
bündig
M18x1 | 8 mm



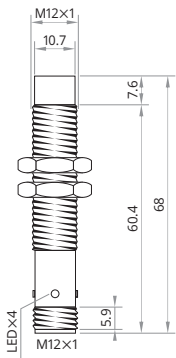
non-flush
nicht bündig
M18x1 | 16 mm



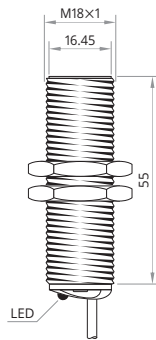
non-flush
nicht bündig
M18x1 | 16 mm



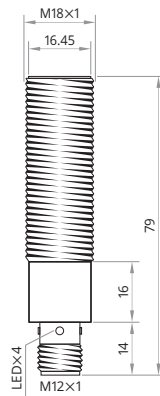
standard
Standard



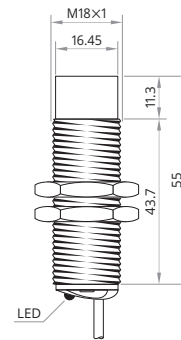
increased
erhöht



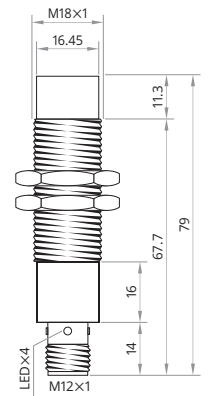
increased
erhöht



increased
erhöht



increased
erhöht



| 4 mm | | 8 mm | | 8 mm | | 16 mm | | 16 mm | |
|--|-------------|--|------------|--|-------------|--|------------|--|-------------|
| 24...255 V _{DC} V _{AC} | | 24...255 V _{DC} V _{AC} | | 24...255 V _{DC} V _{AC} | | 24...255 V _{DC} V _{AC} | | 24...255 V _{DC} V _{AC} | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <8 mA | | <8 mA | | <8 mA | | <8 mA | | <8 mA | |
| 100 mA | | 200 mA | | 200 mA | | 200 mA | | 200 mA | |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| <1.5 V @ 100 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | | <1.5 V @ 200 mA | |
| 1000 Hz | | 500 Hz | | 500 Hz | | 150 Hz | | 150 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| brass | Messing | brass | Messing | brass | Messing | brass | Messing | brass | Messing |
| built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert | built-in | integriert |
| conn. M12 | Stecker M12 | PVC, ultra-flex | | conn. M12 | Stecker M12 | PVC, ultra-flex | | conn. M12 | Stecker M12 |
| IPS12-N4UO68-A12* | | IPS18-S8UO55-A2P | | IPS18-S8UO79-A12 | | IPS18-N16UO55-A2P | | IPS18-N16UO79-A12 | |
| IPS12-N4UC68-A12* | | IPS18-S8UC55-A2P | | IPS18-S8UC79-A12 | | IPS18-N16UC55-A2P | | IPS18-N16UC79-A12 | |

Inductive Proximity Switch 2-Wire Universal Current

Induktive Näherungsschalter 2-Leiter Allstrom

flush
bündig
M30×1.5 | 16 mm



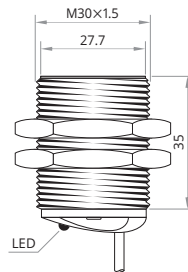
flush
bündig
M30×1.5 | 16 mm



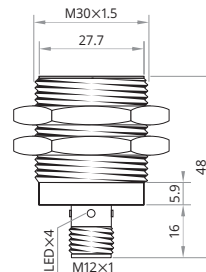
flush
bündig
M30×1.5 | 16 mm



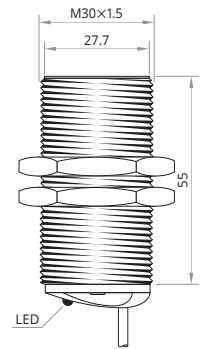
increased
erhöht



increased
erhöht



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 16 mm | 16 mm | 16 mm |
|-----------------------------|------------------------|--|--|--|
| Operating voltage | Betriebsspannung | 24...255 V _{DC} V _{AC} | 24...255 V _{DC} V _{AC} | 24...255 V _{DC} V _{AC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <8 mA | <8 mA | <8 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 150 Hz | 150 Hz | 150 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex |
| Article code NO | ┌ | IPS30-S16UO35-A2P | IPS30-S16UO48-A12 | IPS30-S16UO55-A2P |
| Article code NC | └ | IPS30-S16UC35-A2P | IPS30-S16UC48-A12 | IPS30-S16UC55-A2P |

Mind O=0, I=I≠1, S=5, B=8.

O=0, I=I≠1, S=5, B=8 beachten.

* Minimum order quantity 10 units.

* Mindestbestellmenge 10 Stück.

flush
bündig
M30×1.5 | 16 mm



non-flush
nicht bündig
M30×1.5 | 25 mm



non-flush
nicht bündig
M30×1.5 | 25 mm



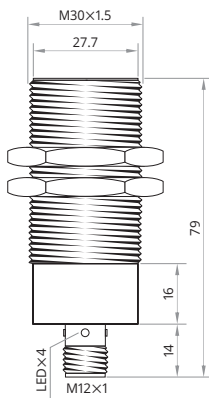
non-flush
nicht bündig
M30×1.5 | 25 mm



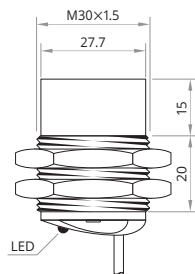
non-flush
nicht bündig
M30×1.5 | 25 mm



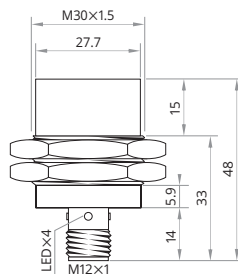
increased
erhöht



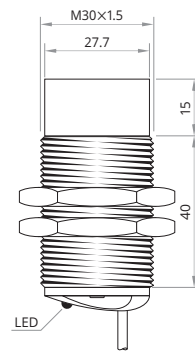
standard
Standard



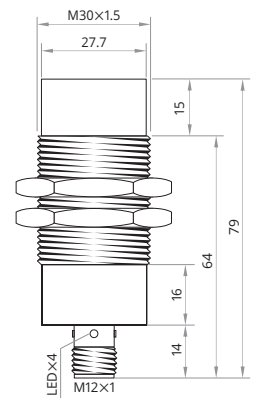
standard
Standard



increased
erhöht



increased
erhöht



| 16 mm | 25 mm | 25 mm | 25 mm | 25 mm |
|--|--|--|--|--|
| 24...255 V _{DC} V _{AC} | 24...255 V _{DC} V _{AC} | 24...255 V _{DC} V _{AC} | 24...255 V _{DC} V _{AC} | 24...255 V _{DC} V _{AC} |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <8 mA | <8 mA | <8 mA | <8 mA | <8 mA |
| 200 mA | 200 mA | 200 mA | 200 mA | 200 mA |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA | <1.5 V @ 200 mA |
| 150 Hz | 150 Hz | 150 Hz | 100 Hz | 100 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| brass Messing | brass Messing | brass Messing | brass Messing | brass Messing |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 |
| IPS30-S16UO79-A12 | IPS30-N25UO35-A2P* | IPS30-N25UO48-A12* | IPS30-N25UO55-A2P | IPS30-N25UO79-A12 |
| IPS30-S16UC79-A12 | IPS30-N25UC35-A2P* | IPS30-N25UC48-A12* | IPS30-N25UC55-A2P | IPS30-N25UC79-A12 |

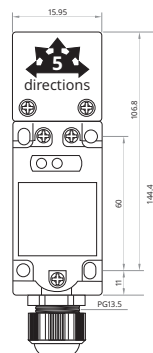
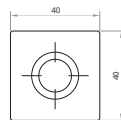
Inductive Proximity Switch 2-Wire Universal Current

Induktive Näherungsschalter 2-Leiter Allstrom

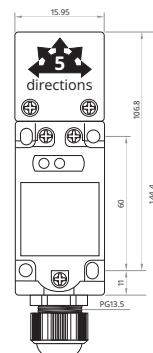
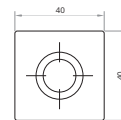
flush bündig 40×40 mm | 15 mm flush bündig 40×40 mm | 20 mm non-flush nicht bündig 40×40 mm | 30 mm



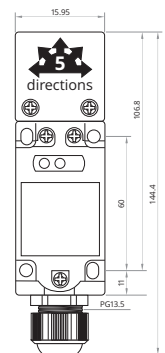
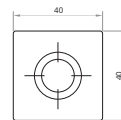
standard
Standard



increased
erhöht



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 15 mm | 20 mm | 30 mm |
|-----------------------------|------------------------|--|--|--|
| Operating voltage | Betriebsspannung | 24...255 V _{DC} V _{AC} | 24...255 V _{DC} V _{AC} | 24...255 V _{DC} V _{AC} |
| Reverse polarity protection | Verpolungsschutz | built-in integriert | built-in integriert | built-in integriert |
| Current consumption | Stromverbrauch | <11 mA | <11 mA | <11 mA |
| Current load capability | Ausgangsbelastbarkeit | 200 mA | 200 mA | 200 mA |
| Short circuit protection | Kurzschlusschutz | built-in integriert | built-in integriert | built-in integriert |
| Voltage drop | Spannungsabfall | <2 V @ 200 mA | <2 V @ 200 mA | <2 V @ 200 mA |
| Switching frequency | Schaltfrequenz | 120 Hz | 120 Hz | 120 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | PBT | PBT | PBT |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | terminal Klemme | terminal Klemme | terminal Klemme |
| Article code NO | ↙ | IPS40-S15UOL-PG13* | IPS40-S20UOL-PG13 | IPS40-N30UOL-PG13 |
| Article code NC | ↘ | IPS40-S15UCL-PG13* | IPS40-S20UCL-PG13 | IPS40-N30UCL-PG13 |

Mind O=0, I=I≠1, S=5, B≠8.

O=0, I=I≠1, S=5, B≠8 beachten.

* Minimum order quantity 10 units.

* Mindestbestellmenge 10 Stück.

Inductive Proximity Switch 2-Wire Alternating Current

Induktive Näherungsschalter 2-Leiter Wechselstrom

flush
bündig
M12×1 | 4 mm



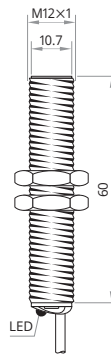
flush
bündig
M12×1 | 4 mm



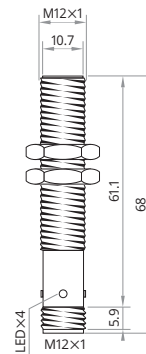
non-flush
nicht bündig
M12×1 | 8 mm



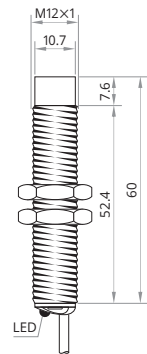
increased
erhöht



increased
erhöht



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 4 mm | 4 mm | 8 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 20...250 V _{AC} | 20...250 V _{AC} | 20...250 V _{AC} |
| Reverse polarity protection | Verpolungsschutz | not required nicht nötig | not required nicht nötig | not required nicht nötig |
| Current consumption | Stromverbrauch | <3 mA | <3 mA | <3 mA |
| Current load capability | Ausgangsbelastbarkeit | 400 mA | 400 mA | 400 mA |
| Voltage drop | Spannungsabfall | <8 V @ 400 mA | <8 V @ 400 mA | <8 V @ 400 mA |
| Switching frequency | Schaltfrequenz | 25 Hz | 25 Hz | 25 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex |
| Article code NO | ┌ | IPS12-S4AO60-A2P | IPS12-S4AO68-A12 | IPS12-N8AO60-A2P |
| Article code NC | └ | IPS12-S4AC60-A2P | IPS12-S4AC68-A12 | IPS12-N8AC60-A2P |

Mind O=0, I=I≠1, S=5, B=8.

O=0, I=I≠1, S=5, B=8 beachten.

* Minimum order quantity 10 units.

* Mindestbestellmenge 10 Stück.

non-flush
nicht bündig
M12x1 | 8 mm



flush
bündig
M12x1 | 8 mm



flush
bündig
M12x1 | 8 mm



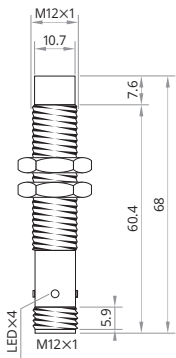
flush
bündig
M18x1 | 8 mm



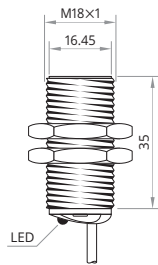
flush
bündig
M18x1 | 8 mm



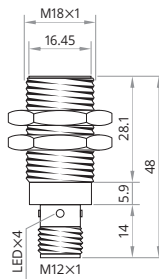
increased
erhöht



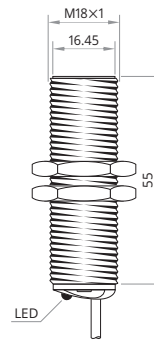
increased
erhöht



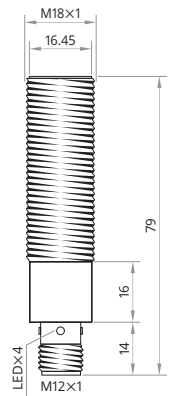
increased
erhöht



increased
erhöht



increased
erhöht



| 8 mm | 8 mm | 8 mm | 8 mm | 8 mm |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 20...250 V _{AC} | 20...250 V _{AC} | 20...250 V _{AC} | 20...250 V _{AC} | 20...250 V _{AC} |
| not required nicht nötig | not required nicht nötig | not required nicht nötig | not required nicht nötig | not required nicht nötig |
| <3 mA | <3 mA | <3 mA | <3 mA | <3 mA |
| 400 mA | 400 mA | 400 mA | 400 mA | 400 mA |
| <8 V @ 400 mA | <8 V @ 400 mA | <8 V @ 400 mA | <8 V @ 400 mA | <8 V @ 400 mA |
| 25 Hz | 25 Hz | 25 Hz | 25 Hz | 25 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| brass Messing | brass Messing | brass Messing | brass Messing | brass Messing |
| built-in integriert | built-in integriert | built-in integriert | built-in integriert | built-in integriert |
| conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 | PVC, ultra-flex | conn. M12 Stecker M12 |
| IPS12-N8AO68-A12 | IPS18-S8AO35-A2P | IPS18-S8AO48-A12 | IPS18-S8AO55-A2P | IPS18-S8AO79-A12 |
| IPS12-N8AC68-A12 | IPS18-S8AC35-A2P | IPS18-S8AC48-A12 | IPS18-S8AC55-A2P | IPS18-S8AC79-A12 |

Inductive Proximity Switch 2-Wire Alternating Current

Induktive Näherungsschalter 2-Leiter Wechselstrom

non-flush
nicht bündig
M18×1 | 16 mm



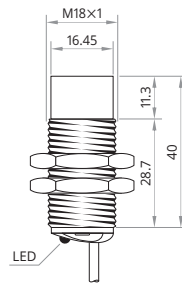
non-flush
nicht bündig
M18×1 | 16 mm



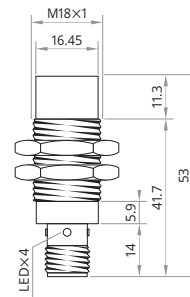
non-flush
nicht bündig
M18×1 | 16 mm



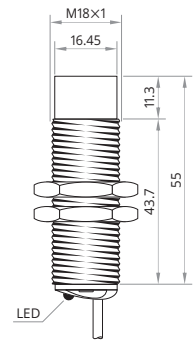
increased
erhöht



increased
erhöht



increased
erhöht



| Sensing distance S_n | Schaltabstand S_n | 16 mm | 16 mm | 16 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 20...250 V _{AC} | 20...250 V _{AC} | 20...250 V _{AC} |
| Reverse polarity protection | Verpolungsschutz | not required nicht nötig | not required nicht nötig | not required nicht nötig |
| Current consumption | Stromverbrauch | <3 mA | <3 mA | <3 mA |
| Current load capability | Ausgangsbelastbarkeit | 400 mA | 400 mA | 400 mA |
| Voltage drop | Spannungsabfall | <8 V @ 400 mA | <8 V @ 400 mA | <8 V @ 400 mA |
| Switching frequency | Schaltfrequenz | 25 Hz | 25 Hz | 25 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | conn. M12 Stecker M12 | conn. M12 Stecker M12 | conn. M12 Stecker M12 |
| Article code NO | ┌ | IPS18-N16AO40-A12 | IPS18-N16AO53-A12 | IPS18-N16AO55-A12 |
| Article code NC | └ | IPS18-N16AC40-A12 | IPS18-N16AC53-A12 | IPS18-N16AC55-A12 |

* Minimum order quantity 10 units.

Mind O=0, I=I≠1, S=5, B=8.

O=0, I=I≠1, S=5, B=8 beachten.

* Mindestbestellmenge 10 Stück.

non-flush
nicht bündig
M18×1 | 16 mm



flush
bündig
M30×1.5 | 16 mm



flush
bündig
M30×1.5 | 16 mm



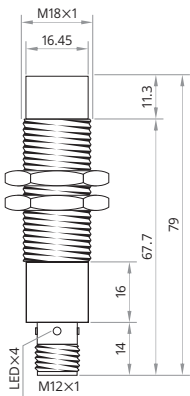
flush
bündig
M30×1.5 | 16 mm



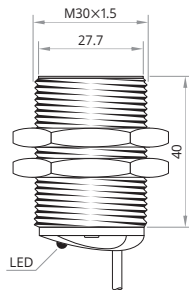
non-flush
nicht bündig
M30×1.5 | 25 mm



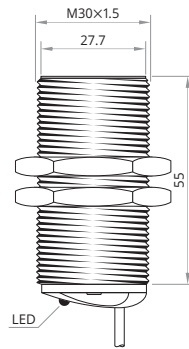
increased
erhöht



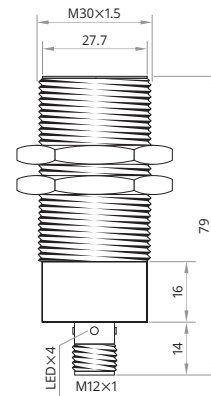
increased
erhöht



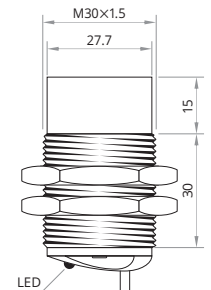
increased
erhöht



increased
erhöht



increased
erhöht



16 mm

20...250 V_{AC}

not required nicht nötig

<3 mA

400 mA

<8 V @ 400 mA

25 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

conn. M12 Stecker M12

IPS18-N16AO79-A12

IPS18-N16AC79-A12

16 mm

20...250 V_{AC}

not required nicht nötig

<3 mA

400 mA

<8 V @ 400 mA

25 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

PVC, ultra-flex

IPS30-S16AO40-A2P

IPS30-S16AC40-A2P

16 mm

20...250 V_{AC}

not required nicht nötig

<3 mA

400 mA

<8 V @ 400 mA

25 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

PVC, ultra-flex

IPS30-S16AO55-A2P

IPS30-S16AC55-A2P

16 mm

20...250 V_{AC}

not required nicht nötig

<3 mA

400 mA

<8 V @ 400 mA

25 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

conn. M12 Stecker M12

IPS30-S16AO79-A12

IPS30-S16AC79-A12

25 mm

20...250 V_{AC}

not required nicht nötig

<3 mA

400 mA

<8 V @ 400 mA

25 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

brass Messing

built-in integriert

PVC, ultra-flex

IPS30-N25AO45-A2P

IPS30-N25AC45-A2P

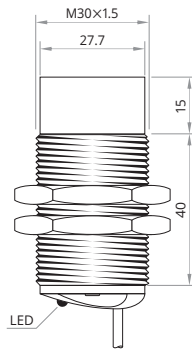
Inductive Proximity Switch 2-Wire Alternating Current

Induktive Näherungsschalter 2-Leiter Wechselstrom

non-flush
nicht bündig
M30×1.5 | 25 mm



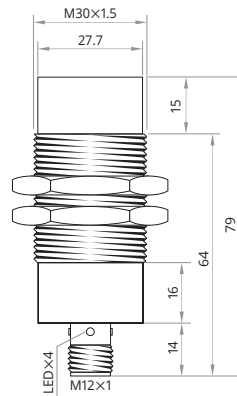
increased
erhöht



non-flush
nicht bündig
M30×1.5 | 25 mm



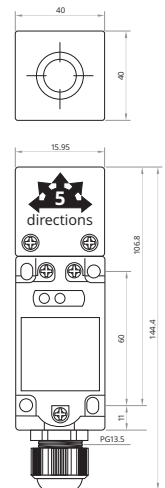
increased
erhöht



flush
bündig
40×40 mm | 15 mm



standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 25 mm | 25 mm | 15 mm |
|-----------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|
| Operating voltage | Betriebsspannung | 20...250 V _{AC} | 20...250 V _{AC} | 20...250 V _{AC} |
| Reverse polarity protection | Verpolungsschutz | not required nicht nötig | not required nicht nötig | not required nicht nötig |
| Current consumption | Stromverbrauch | <3 mA | <3 mA | <3 mA |
| Current load capability | Ausgangsbelastbarkeit | 400 mA | 400 mA | 400 mA |
| Voltage drop | Spannungsabfall | <8 V @ 400 mA | <8 V @ 400 mA | <8 V @ 400 mA |
| Switching frequency | Schaltfrequenz | 25 Hz | 25 Hz | 25 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | PBT |
| Switching indicator | Schaltanzeige | built-in integriert | built-in integriert | built-in integriert |
| Connection | Anschluss | PVC, ultra-flex | conn. M12 Stecker M12 | PG13.5, terminal |
| Article code NO | ┌ | IPS30-N25AO55-A2P | IPS30-N25AO79-A12 | IPS40-S15AOL-PG13* |
| Article code NC | └ | IPS30-N25AC55-A2P | IPS30-N25AC79-A12 | IPS40-S15ACL-PG13* |

* Minimum order quantity 10 units.

Mind O=0, I=I≠1, S=5, B≠8.

O=0, I=I≠1, S=5, B≠8 beachten.

* Mindestbestellmenge 10 Stück.

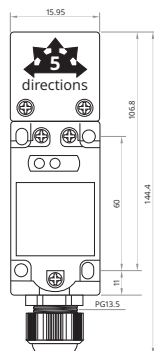
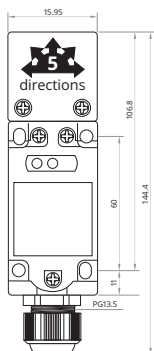
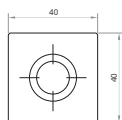
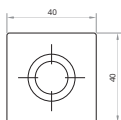
flush
bündig
40×40 mm | 20 mm

non-flush
nicht bündig
40×40 mm | 30 mm



increased
erhöht

increased
erhöht



20 mm

20...250 V_{AC}

not required nicht nötig

<3 mA

400 mA

<8 V @ 400 mA

25 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

PBT

built-in integriert

PG13.5, terminal

IPS40-S20AOL-PG13

IPS40-S20ACL-PG13

30 mm

20...250 V_{AC}

not required nicht nötig

<3 mA

400 mA

<8 V @ 400 mA

25 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

PBT

built-in integriert

PG13.5, terminal

IPS40-N30AOL-PG13

IPS40-N30ACL-PG13

Inductive Proximity Switch 2-Wire DC NAMUR Intrinsically Safe

Induktive Näherungsschalter 2-Leiter DC NAMUR

flush
bündig
Ø 4 mm | 0.8 mm



flush
bündig
Ø 4 mm | 0.8 mm



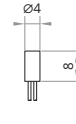
flush
bündig
Ø 4 mm | 0.8 mm



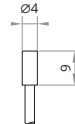
standard
Standard



standard
Standard



standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 0.8 mm | 0.8 mm | 0.8 mm |
|-----------------------------|------------------------|--------------------------------|--------------------------------|--------------------------------|
| Operating voltage | Betriebsspannung | 6...12 V _{DC} , NAMUR | 6...12 V _{DC} , NAMUR | 6...12 V _{DC} , NAMUR |
| Reverse polarity protection | Verpolungsschutz | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| Current consumption | Stromverbrauch | >2.1 mA | >2.1 mA | >2.1 mA |
| Off-state current | Unbedämpfter Strom | <1.1 mA | <1.1 mA | <1.1 mA |
| Short circuit protection | Kurzschlusschutz | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| Voltage drop | Spannungsabfall | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| Switching frequency | Schaltfrequenz | 2000 Hz | 2000 Hz | 2000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| Switching indicator | Schaltanzeige | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| Connection | Anschluss | PUR, ultra-flex | PUR, ultra-flex | PUR, ultra-flex |
| Article code | | IPSD4-S08NA8-N2U | IPSD4-S08NA8-20F2 | IPSD4-S08NA9-N2U |

flush
bündig
Ø 4 mm | 0.8 mm



flush
bündig
Ø 4 mm | 0.8 mm



flush
bündig
Ø 4 mm | 0.8 mm



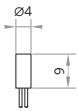
flush
bündig
M5 | 0.8 mm



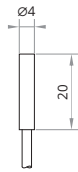
flush
bündig
M5 | 0.8 mm



standard
Standard



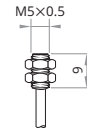
standard
Standard



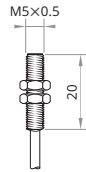
standard
Standard



standard
Standard



standard
Standard



| 0.8 mm | 0.8 mm | 0.8 mm | 0.8 mm | 0.8 mm |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 6...12 V _{DC} , NAMUR | 6...12 V _{DC} , NAMUR | 6...12 V _{DC} , NAMUR | 6...12 V _{DC} , NAMUR | 6...12 V _{DC} , NAMUR |
| amplifier Verstärker | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| >2.1 mA | >2.1 mA | >2.1 mA | >2.1 mA | >2.1 mA |
| <1.1 mA | <1.1 mA | <1.1 mA | <1.1 mA | <1.1 mA |
| amplifier Verstärker | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| amplifier Verstärker | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| 2000 Hz | 2000 Hz | 2000 Hz | 2000 Hz | 2000 Hz |
| Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| IP67 | IP67 | IP67 | IP67 | IP67 |
| PBT | PBT | PBT | PBT | PBT |
| SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| amplifier Verstärker | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| PUR, ultra-flex | PUR, ultra-flex | PUR, ultra-flex | PUR, ultra-flex | PUR, ultra-flex |
| IPSD4-S08NA9-20F2 | IPSD4-S08NA20-N2U | IPSD4-S08NA26-N2U | IP55-S08NA9-N2U | IP55-S08NA20-N2U |

Inductive Proximity Switch

2-Wire DC NAMUR

Intrinsically Safe

Induktive Näherungsschalter

2-Leiter DC NAMUR

flush
bündig
M5 | 0.8 mm



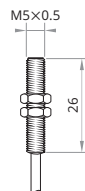
flush
bündig
Ø 6.5 mm | 1 mm



non-flush
nicht bündig
Ø 6.5 mm | 2 mm



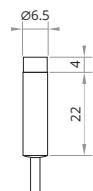
standard
Standard



standard
Standard



standard
Standard



| Sensing distance S_n | Schaltabstand S_n | 0.8 mm | 1 mm | 2 mm |
|-----------------------------|------------------------|--------------------------------|--------------------------------|--------------------------------|
| Operating voltage | Betriebsspannung | 6...12 V _{DC} , NAMUR | 6...12 V _{DC} , NAMUR | 6...12 V _{DC} , NAMUR |
| Reverse polarity protection | Verpolungsschutz | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| Current consumption | Stromverbrauch | >2.1 mA | >2.1 mA | >2.1 mA |
| Off-state current | Unbedämpfter Strom | <1.1 mA | <1.1 mA | <1.1 mA |
| Short circuit protection | Kurzschlusschutz | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| Voltage drop | Spannungsabfall | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| Switching frequency | Schaltfrequenz | 2000 Hz | 2000 Hz | 1000 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | SS 1.4301 V2A | SS 1.4301 V2A | SS 1.4301 V2A |
| Switching indicator | Schaltanzeige | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| Connection | Anschluss | PUR, ultra-flex | PVC, ultra-flex | PVC, ultra-flex |
| Article code | | IPSS-S08NA26-N2U | IPSD6-S1NA26-N2P | IPSD6-N2NA26-N2P |

flush
bündig
M8 | 1 mm



non-flush
nicht bündig
M8 | 2 mm



flush
bündig
M12 | 2 mm



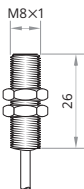
non-flush
nicht bündig
M12 | 4 mm



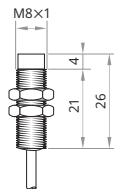
flush
bündig
M18 | 5 mm



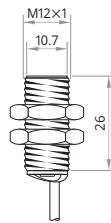
standard
Standard



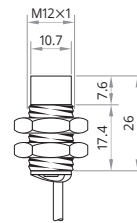
standard
Standard



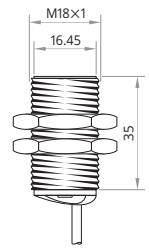
standard
Standard



standard
Standard



standard
Standard



| 1 mm | | 2 mm | | 2 mm | | 4 mm | | 5 mm | |
|--------------------------------|------------|--------------------------------|------------|--------------------------------|------------|--------------------------------|------------|--------------------------------|------------|
| 6...12 V _{DC} , NAMUR | | 6...12 V _{DC} , NAMUR | | 6...12 V _{DC} , NAMUR | | 6...12 V _{DC} , NAMUR | | 6...12 V _{DC} , NAMUR | |
| amplifier | Verstärker | amplifier | Verstärker | amplifier | Verstärker | amplifier | Verstärker | amplifier | Verstärker |
| >2.1 mA | | >2.1 mA | | >2.1 mA | | >2.1 mA | | >2.1 mA | |
| <1.1 mA | | <1.1 mA | | <1.1 mA | | <1.1 mA | | <1.1 mA | |
| amplifier | Verstärker | amplifier | Verstärker | amplifier | Verstärker | amplifier | Verstärker | amplifier | Verstärker |
| amplifier | Verstärker | amplifier | Verstärker | amplifier | Verstärker | amplifier | Verstärker | amplifier | Verstärker |
| 2000 Hz | | 1000 Hz | | 1000 Hz | | 500 Hz | | 500 Hz | |
| Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | | Alu 0.45 · Brs 0.50 · SS 0.85 | |
| -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | | -20...+70 °C | |
| IP67 | | IP67 | | IP67 | | IP67 | | IP67 | |
| PBT | | PBT | | PBT | | PBT | | PBT | |
| SS 1.4301 | V2A | SS 1.4301 | V2A | brass | Messing | brass | Messing | brass | Messing |
| amplifier | Verstärker | amplifier | Verstärker | amplifier | Verstärker | amplifier | Verstärker | amplifier | Verstärker |
| PVC, ultra-flex | | PVC, ultra-flex | | PVC, ultra-flex | | PVC, ultra-flex | | PVC, ultra-flex | |
| IPS8-S1NA26-N2P | | IPS8-N2NA26-N2P | | IPS12-S2NA26-N2P | | IPS12-N4NA26-N2P | | IPS18-S5NA30-N2P | |

Inductive Proximity Switch
2-Wire DC NAMUR
Intrinsically Safe

Induktive Näherungsschalter
2-Leiter DC NAMUR

non-flush
 nicht bündig
M18 | 8 mm



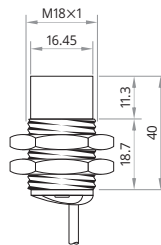
flush
 bündig
M30 | 10 mm



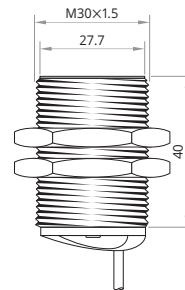
non-flush
 nicht bündig
M30 | 15 mm



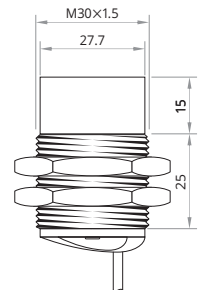
standard
 Standard



standard
 Standard



standard
 Standard



| Sensing distance S_n | Schaltabstand S_n | 8 mm | 10 mm | 15 mm |
|-----------------------------|------------------------|--------------------------------|--------------------------------|--------------------------------|
| Operating voltage | Betriebsspannung | 6...12 V _{DC} , NAMUR | 6...12 V _{DC} , NAMUR | 6...12 V _{DC} , NAMUR |
| Reverse polarity protection | Verpolungsschutz | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| Current consumption | Stromverbrauch | >2.1 mA | >2.1 mA | >2.1 mA |
| Off-state current | Unbedämpfter Strom | <1.1 mA | <1.1 mA | <1.1 mA |
| Short circuit protection | Kurzschlusschutz | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| Voltage drop | Spannungsabfall | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| Switching frequency | Schaltfrequenz | 300 Hz | 500 Hz | 500 Hz |
| Reduction factors | Reduktionsfaktoren | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 | Alu 0.45 · Brs 0.50 · SS 0.85 |
| Operating temperature | Betriebstemperatur | -20...+70 °C | -20...+70 °C | -20...+70 °C |
| Protection class | Schutzklasse | IP67 | IP67 | IP67 |
| Sensing face material | Sensorflächenwerkstoff | PBT | PBT | PBT |
| Housing material | Gehäusewerkstoff | brass Messing | brass Messing | brass Messing |
| Switching indicator | Schaltanzeige | amplifier Verstärker | amplifier Verstärker | amplifier Verstärker |
| Connection | Anschluss | PVC, ultra-flex | PVC, ultra-flex | PVC, ultra-flex |
| Article code | | IPS18-N8NA30-N2P | IPS30-S10NA40-N2P | IPS30-N15NA45-N2P |