



Inductive Sensors 3-Wire DC Miniature

Engineers are often faced with a particular need for sensors that fit into tight spaces. The XECRO inductive Miniature Series comprises sensors

- ▶ with built-in amplifier
- ▶ which range in size from Ø3 mm to M5
- ▶ including cuboid sensors with 5×5 mm² cross section.

The Inductive Miniature Series is guaranteed to be manufactured

- ▶ with built-in LED switching indicators,
- ▶ short-circuit-proof output drivers, and
- ▶ reverse polarity protection.

Konstrukteure benötigen häufig Sensoren für enge Einbauorte. XECROs induktive Miniatur-Baureihe bietet Sensoren

- ▶ mit integriertem Verstärker
- ▶ im Bereich von Ø3 mm bis M5
- ▶ sowie quaderförmige Sensoren mit 5×5 mm² Querschnitt.

Alle Geräte der induktiven Miniatur-Baureihe werden mit

- ▶ eingebauter LED-Schaltanzeige,
- ▶ kurzschlussfesten Ausgangstreibern und
- ▶ Verpolungsschutz gefertigt.

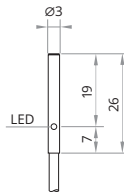
Inductive Proximity Switch 3-Wire DC Miniature

Induktive Näherungsschalter 3-Leiter DC Miniatur

flush
bündig
Ø 3 mm | 0.6 mm



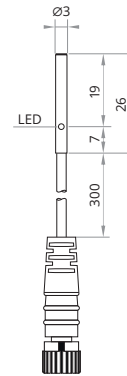
standard
Standard



flush
bündig
Ø 3 mm | 0.6 mm



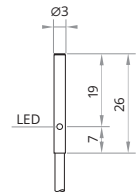
standard
Standard



flush
bündig
Ø 3 mm | 1.0 mm



increased
erhöht



Sensing distance S_n	Schaltabstand S_n	0.6 mm		0.6 mm		1.0 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	120 mA		120 mA		120 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	PUR, ultra-flex		PUR, 300 mm, M8		PUR, ultra-flex	
Article code PNP, NO	┌—	IPSD3-S06PO26-A2U		IPSD3-S06PO26-3U8		IPSD3-S1PO26-A2U	
Article code PNP, NC	└—	IPSD3-S06PC26-A2U		IPSD3-S06PC26-3U8		IPSD3-S1PC26-A2U	
Article code NPN, NO	┌—	IPSD3-S06NO26-A2U		IPSD3-S06NO26-3U8		IPSD3-S1NO26-A2U	
Article code NPN, NC	└—	IPSD3-S06NC26-A2U		IPSD3-S06NC26-3U8		IPSD3-S1NC26-A2U	

flush
bündig
Ø 3 mm | 1.0 mm



flush
bündig
M4×0.5 | 0.6 mm



flush
bündig
M4×0.5 | 0.6 mm



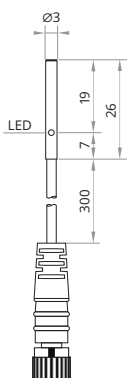
flush
bündig
M4×0.5 | 1.0 mm



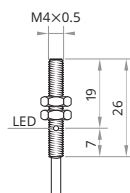
flush
bündig
M4×0.5 | 1.0 mm



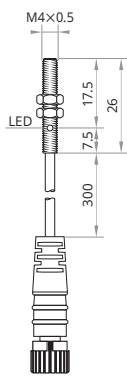
increased
erhöht



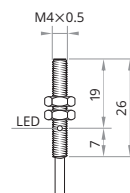
standard
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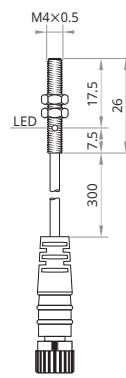
standard
Standard



increased
erhöht



increased
erhöht



1.0 mm

10...30 V_{DC}

built-in integriert

<8 mA

120 mA

built-in integriert

<1.5 V @ 200 mA

2000 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

SS 1.4301 V2A

built-in integriert

PUR, 300 mm, M8

IPSD3-S1PO26-3U8

IPSD3-S1PC26-3U8

IPSD3-S1NO26-3U8

IPSD3-S1NC26-3U8

0.6 mm

10...30 V_{DC}

built-in integriert

<8 mA

120 mA

built-in integriert

<1.5 V @ 200 mA

2000 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-20...+70 °C

IP67

PBT

SS 1.4301 V2A

built-in integriert

PUR, ultra-flex

IPS4-S06PO26-A2U

IPS4-S06PC26-A2U

IPS4-S06NO26-A2U

IPS4-S06NC26-A2U

0.6 mm

10...30 V_{DC}

built-in integriert

<8 mA

120 mA

built-in integriert

<1.5 V @ 200 mA

2000 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

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PUR, 300 mm, M8

IPS4-S06PO26-3U8

IPS4-S06PC26-3U8

IPS4-S06NO26-3U8

IPS4-S06NC26-3U8

1.0 mm

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<8 mA

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2000 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

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SS 1.4301 V2A

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PUR, ultra-flex

IPS4-S1PO26-A2U

IPS4-S1PC26-A2U

IPS4-S1NO26-A2U

IPS4-S1NC26-A2U

1.0 mm

10...30 V_{DC}

built-in integriert

<8 mA

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PUR, 300 mm, M8

IPS4-S1PO26-3U8

IPS4-S1PC26-3U8

IPS4-S1NO26-3U8

IPS4-S1NC26-3U8

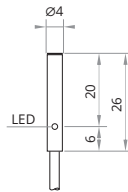
Inductive Proximity Switch 3-Wire DC Miniature

Induktive Näherungsschalter 3-Leiter DC Miniatur

flush
bündig
Ø 4 mm | 0.8 mm



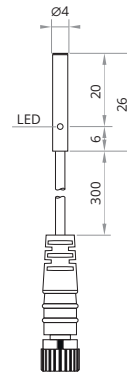
standard
Standard



flush
bündig
Ø 4 mm | 0.8 mm



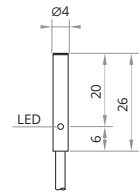
standard
Standard



flush
bündig
Ø 4 mm | 1.5 mm



increased
erhöht



Sensing distance S_n	Schaltabstand S_n	0.8 mm	0.8 mm	1.5 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	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	PUR, ultra-flex	PUR, 300 mm, M8	PUR, ultra-flex
Article code PNP, NO	┌—	IPSD4-S08PO26-A2U	IPSD4-S08PO26-3U8	IPSD4-S1.5PO26-A2U
Article code PNP, NC	└—	IPSD4-S08PC26-A2U	IPSD4-S08PC26-3U8	IPSD4-S1.5PC26-A2U
Article code NPN, NO	┌—	IPSD4-S08NO26-A2U	IPSD4-S08NO26-3U8	IPSD4-S1.5NO26-A2U
Article code NPN, NC	└—	IPSD4-S08NC26-A2U	IPSD4-S08NC26-3U8	IPSD4-S1.5NC26-A2U

flush
bündig
Ø 4 mm | 1.5 mm



flush
bündig
M5×0.5 | 0.8 mm



flush
bündig
M5×0.5 | 0.8 mm



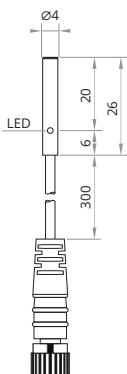
flush
bündig
M5×0.5 | 0.8 mm



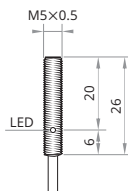
flush
bündig
M5×0.5 | 1.5 mm



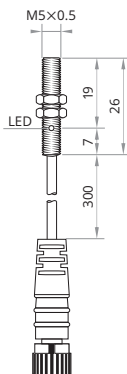
increased
erhöht



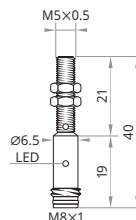
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Standard



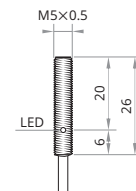
standard
Standard



standard
Standard



increased
erhöht



1.5 mm		0.8 mm		0.8 mm		0.8 mm		1.5 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	
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
PUR, 300 mm, M8		PUR, ultra-flex		PUR, 300 mm, M8		Conn. M8		PUR, ultra-flex	
IPSD4-S1.5PO26-3U8		IPS5-S08PO26-A2U		IPS5-S08PO26-3U8		IPS5-S08PO40-A8		IPS5-S1.5PO26-A2U	
IPSD4-S1.5PC26-3U8		IPS5-S08PC26-A2U		IPS5-S08PC26-3U8		IPS5-S08PC40-A8		IPS5-S1.5PC26-A2U	
IPSD4-S1.5NO26-3U8		IPS5-S08NO26-A2U		IPS5-S08NO26-3U8		IPS5-S08NO40-A8		IPS5-S1.5NO26-A2U	
IPSD4-S1.5NC26-3U8		IPS5-S08NC26-A2U		IPS5-S08NC26-3U8		IPS5-S08NC40-A8		IPS5-S1.5NC26-A2U	

Inductive Proximity Switch 3-Wire DC Miniature

Induktive Näherungsschalter 3-Leiter DC Miniatur

flush
bündig
M5×0.5 | 1.5 mm



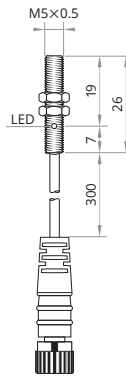
flush
bündig
M5×0.5 | 1.5 mm



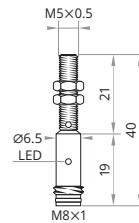
flush
bündig
5×5 mm | 0.8 mm



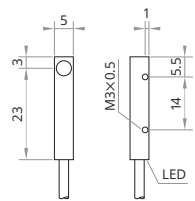
increased
erhöht



increased
erhöht



standard
Standard



Sensing distance S_n	Schaltabstand S_n	1.5 mm	1.5 mm	0.8 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	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	brass Messing
Switching indicator	Schaltanzeige	built-in integriert	built-in integriert	built-in integriert
Connection	Anschluss	PUR, 300 mm, M8	Conn. M8	PUR, ultra-flex
Article code PNP, NO	↘	IPS5-S1.5PO26-3U8	IPS5-S1.5PO40-A8	IPS55-S08PO26-A2U
Article code PNP, NC	↗	IPS5-S1.5PC26-3U8	IPS5-S1.5PC40-A8	IPS55-S08PC26-A2U
Article code NPN, NO	↘	IPS5-S1.5NO26-3U8	IPS5-S1.5NO40-A8	IPS55-S08NO26-A2U
Article code NPN, NC	↗	IPS5-S1.5NC26-3U8	IPS5-S1.5NC40-A8	IPS55-S08NC26-A2U

flush
bündig
5×5 mm | 0.8 mm



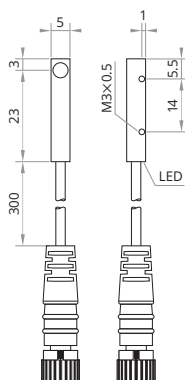
flush
bündig
5×5 mm | 1.5 mm



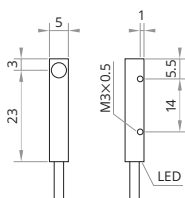
flush
bündig
5×5 mm | 1.5 mm



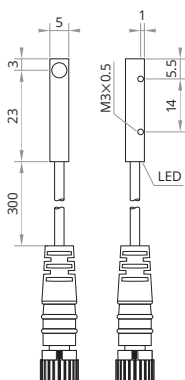
standard
Standard



increased
erhöht



increased
erhöht



0.8 mm

10...30 V_{DC}
built-in integriert
<8 mA
200 mA
built-in integriert
<1.5 V @ 200 mA
2000 Hz
Alu 0.45 · Brs 0.50 · SS 0.85
-20...+70 °C
IP67
PBT
brass Messing
built-in integriert
PUR, 300 mm, M8
IPS55-S08PO26-3U8
IPS55-S08PC26-3U8
IPS55-S08NO26-3U8
IPS55-S08NC26-3U8

1.5 mm

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built-in integriert
<8 mA
200 mA
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<1.5 V @ 200 mA
2000 Hz
Alu 0.45 · Brs 0.50 · SS 0.85
-20...+70 °C
IP67
PBT
brass Messing
built-in integriert
PUR, ultra-flex
IPS55-S1.5PO26-A2U
IPS55-S1.5PC26-A2U
IPS55-S1.5NO26-A2U
IPS55-S1.5NC26-A2U

1.5 mm

10...30 V_{DC}
built-in integriert
<8 mA
200 mA
built-in integriert
<1.5 V @ 200 mA
2000 Hz
Alu 0.45 · Brs 0.50 · SS 0.85
-20...+70 °C
IP67
PBT
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built-in integriert
PUR, 300 mm, M8
IPS55-S1.5PO26-3U8
IPS55-S1.5PC26-3U8
IPS55-S1.5NO26-3U8
IPS55-S1.5NC26-3U8