

Benefits:

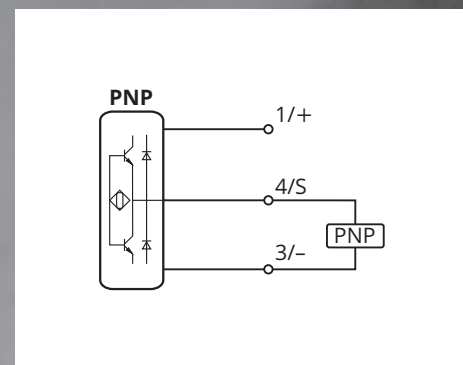
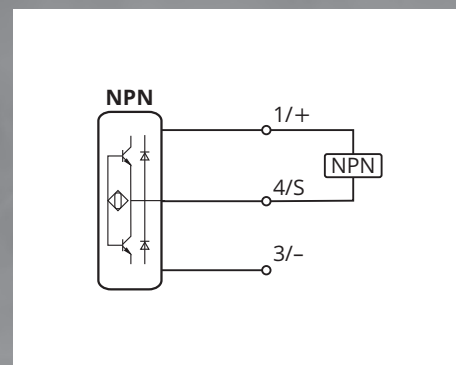
- ▶ Fully embedded amplifier
- ▶ Very short housings also in the Advanced Sensing Range Class
- ▶ Stainless steel housings, potted with epoxy and fiber-glass reinforced substrates or PCBs for maximum long-term stability
- ▶ Operating temperature range $-25...+75\text{ }^{\circ}\text{C}$ ($-13...+167\text{ }^{\circ}\text{F}$)

Vorteile:

- ▶ Vollständig integrierter Verstärker
- ▶ Sehr kurze Bauformen ebenfalls in der Hochleistungs-Schaltabstandklasse
- ▶ Edelstahlgehäuse, Epoxidverguss und glasfaserverstärkte Substrate oder Leiterplatten für maximale Langzeitstabilität
- ▶ Betriebstemperaturbereich $-25...+75\text{ }^{\circ}\text{C}$ ($-13...+167\text{ }^{\circ}\text{F}$)

Data sheets are available on <http://xecro.com>.

Datenblätter sind auf <http://xecro.com> verfügbar.



All devices of this section may not be used if the safety of persons rely on their faultless function!

Alle Geräte dieses Abschnittes dürfen nicht verwendet werden, wenn die Sicherheit von Personen von deren fehlerlosen Funktion abhängt!



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.

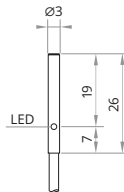
Inductive Proximity Switch 3-Wire DC Miniature

Induktive Näherungsschalter 3-Leiter DC Miniatur

flush
bündig
Ø 3 mm | 0.6 mm



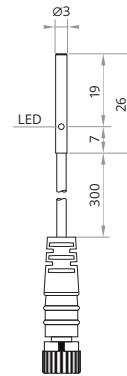
standard
Standard



flush
bündig
Ø 3 mm | 0.6 mm



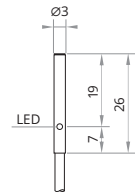
standard
Standard



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	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	-25...+75 °C		-25...+75 °C		-25...+75 °C	
Protection class	Schutzklasse	IP67		IP67		IP67	
Sensing face material	Sensorflächenwerkstoff	POM		POM		POM	
Housing material	Gehäusewerkstoff	SS304	V2A	SS304	V2A	SS304	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



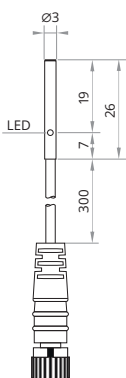
flush
bündig
M4×0.5 | 1.0 mm



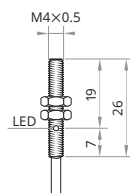
flush
bündig
M4×0.5 | 1.0 mm



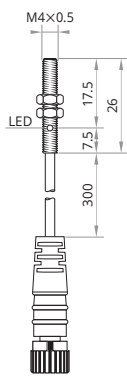
increased
erhöht



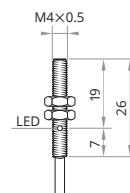
standard
Standard



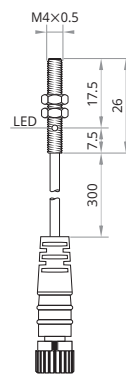
standard
Standard



increased
erhöht



increased
erhöht



1.0 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

-25...+75 °C

IP67

POM

SS304

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

200 mA

built-in integriert

<1.5 V @ 200 mA

2000 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-25...+75 °C

IP67

POM

SS304

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

200 mA

built-in integriert

<1.5 V @ 200 mA

2000 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-25...+75 °C

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SS304

V2A

built-in integriert

PUR, 300 mm, M8

IPS4-S06PO26-3U8

IPS4-S06PC26-3U8

IPS4-S06NO26-3U8

IPS4-S06NC26-3U8

1.0 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

-25...+75 °C

IP67

POM

SS304

V2A

built-in integriert

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

200 mA

built-in integriert

<1.5 V @ 200 mA

2000 Hz

Alu 0.45 · Brs 0.50 · SS 0.85

-25...+75 °C

IP67

POM

SS304

V2A

built-in integriert

PUR, 300 mm, M8

IPS4-S1PO26-3U8

IPS4-S1PC26-3U8

IPS4-S1NO26-3U8

IPS4-S1NC26-3U8

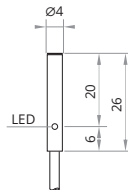
Inductive Proximity Switch 3-Wire DC Miniature

Induktive Näherungsschalter 3-Leiter DC Miniatur

flush
bündig
Ø 4 mm | 0.8 mm



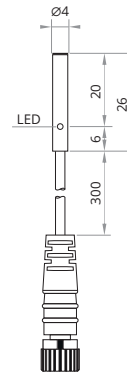
standard
Standard



flush
bündig
Ø 4 mm | 0.8 mm



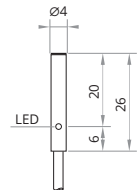
standard
Standard



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	-25...+75 °C		-25...+75 °C		-25...+75 °C	
Protection class	Schutzklasse	IP67		IP67		IP67	
Sensing face material	Sensorflächenwerkstoff	POM		POM		POM	
Housing material	Gehäusewerkstoff	SS304	V2A	SS304	V2A	SS304	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



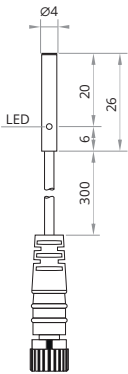
flush
bündig
M5×0.5 | 0.8 mm



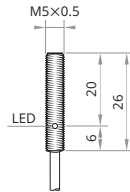
flush
bündig
M5×0.5 | 1.5 mm



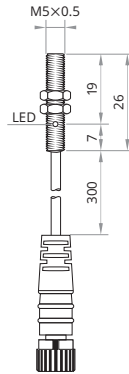
increased
erhöht



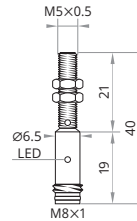
standard
Standard



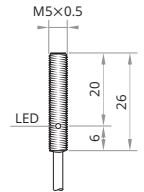
standard
Standard



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	
-25...+75 °C		-25...+75 °C		-25...+75 °C		-25...+75 °C		-25...+75 °C	
IP67		IP67		IP67		IP67		IP67	
POM		POM		POM		POM		POM	
SS304	V2A	SS304	V2A	SS304	V2A	SS304	V2A	SS304	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		PUR, 300 mm, 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



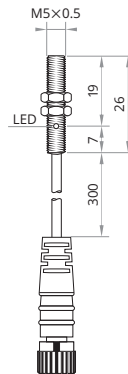
flush
bündig
M5×0.5 | 1.5 mm



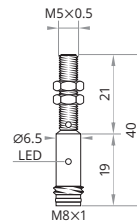
flush
bündig
5×5 mm | 0.8 mm



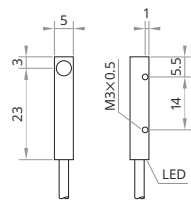
increased
erhöht



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	-25...+75 °C		-25...+75 °C		-25...+75 °C	
Protection class	Schutzklasse	IP67		IP67		IP67	
Sensing face material	Sensorflächenwerkstoff	POM		POM		POM	
Housing material	Gehäusewerkstoff	SS304	V2A	SS304	V2A	brass	Messing
Switching indicator	Schaltanzeige	built-in	integriert	built-in	integriert	built-in	integriert
Connection	Anschluss	PUR, 300 mm, M8		PUR, 300 mm, 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



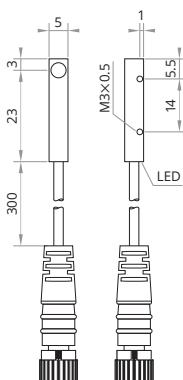
flush
bündig
5×5 mm | 1.5 mm



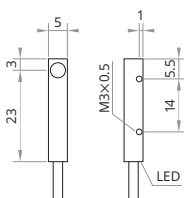
flush
bündig
5×5 mm | 1.5 mm



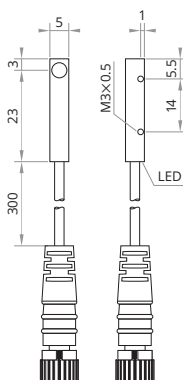
standard
Standard



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
-25...+75 °C
IP67
POM
brass Messing
built-in integriert
PUR, 300 mm, M8
IPS55-S08PO26-3U8
IPS55-S08PC26-3U8
IPS55-S08NO26-3U8
IPS55-S08NC26-3U8

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
-25...+75 °C
IP67
POM
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
-25...+75 °C
IP67
POM
brass Messing
built-in integriert
PUR, 300 mm, M8
IPS55-S1.5PO26-3U8
IPS55-S1.5PC26-3U8
IPS55-S1.5NO26-3U8
IPS55-S1.5NC26-3U8