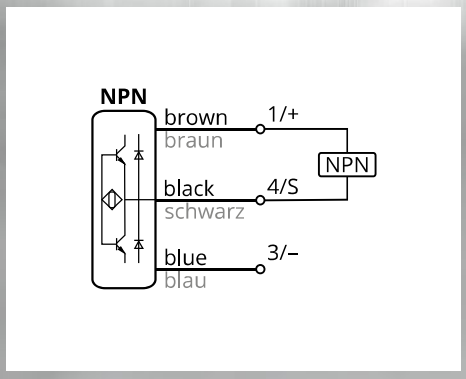
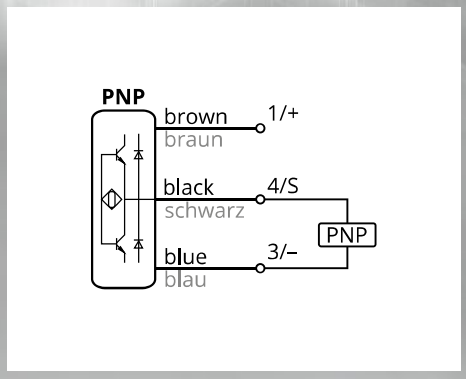
Benefits:

- Housings made of continuous stainless steel (SS304) including the sensing face
- Suitable for environments of heavy mechanical duty

Vorteile:

- Durchgehendes Edelstahlgehäuse (V2A) einschließlich der Sensorfläche
- Geeignet für Umgebungen mit hoher mechanischer Beanspruchung





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 Metal-Face

Inductive Metal-Face sensors from XECRO are constructed with housings made of one continuous piece of stainless steel (SS304) including the sensing face. This extra portion of robustness creates an ideal sensor for operating in environments where even long sensing ranges cannot prevent mechanical damage.

The highly optimized electronics enable XECRO to manufacture these robust and reliable sensors using very short housings, which allow for mounting in smaller locations. The benefits of this innovative Metal-Face technique can also be found in the High Pressure Series.

Induktive Sensoren mit Vollmetallgehäusen von XECRO verwenden ein durchgehendes Edelstahlgehäuse (V2A) einschließlich der Sensorfläche. Dieses Extra an Robustheit prädestiniert sie für Umgebungen, in denen auch hohe Schaltabstände eine mechanische Beschädigung nicht verhindern können.

Auf Grund hochoptimierter Schaltungen kann XECRO diese robusten und verlässlichen Sensoren in sehr kurzen Gehäusen fertigen, welche die Verwendung unter beengten Einbaubedingungen erlauben. Die Vorteile dieser innovativen Vollmetallgehäuse-Technik finden sich ebenfalls in der druckfesten Baureihe.

Inductive Proximity Switch
3-Wire DC Metal Face

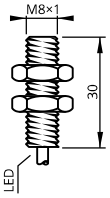
Induktive Näherungsschalter
3-Leiter DC Vollmetallgehäuse

shielded
bündig
M8×1 | 2 mm

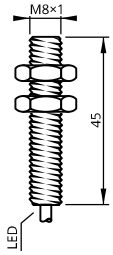
shielded
bündig
M8×1 | 2 mm

shielded
bündig
M8×1 | 2 mm

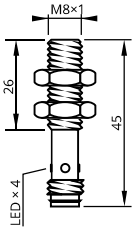
increased
erhöht



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	Kurzschlussschutz	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
Correction factors	Korrekturfaktoren	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...+70 °C	–25...+70 °C	–25...+70 °C
Protection class	Schutzklasse	IP69k, IP67 connector	IP69k, IP67 connector	IP69k, IP67 connector
Sensing face	Sensorfläche	SS304 V2A	SS304 V2A	SS304 V2A
Housing material	Gehäusewerkstoff	SS304 V2A	SS304 V2A	SS304 V2A
Switching indicator	Schaltanzeige	built-in integriert	built-in integriert	built-in integriert
Connection	Anschluss	PVC, ultra-flex	PVC, ultra-flex	conn. M8 M8-Stecker
Article code PNP, NO	⎍	IMF8-S2PO30-A2P	IMF8-S2PO45-A2P	IMF8-S2PO45-A8
Article code PNP, NC	⎍	IMF8-S2PC30-A2P	IMF8-S2PC45-A2P	IMF8-S2PC45-A8
Article code NPN, NO	⎍	IMF8-S2NO30-A2P	IMF8-S2NO45-A2P	IMF8-S2NO45-A8
Article code NPN, NC	⎍	IMF8-S2NC30-A2P	IMF8-S2NC45-A2P	IMF8-S2NC45-A8

Mind O ≠ 0, I ≠ l ≠ 1, S ≠ 5, B ≠ 8. O ≠ 0, I ≠ l ≠ 1, S ≠ 5, B ≠ 8 beachten.

shielded
bündig
M8×1 | 2 mm

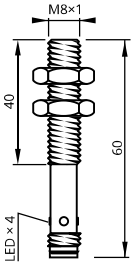
shielded
bündig
M8×1 | 2 mm

unshielded
nicht bündig
M8×1 | 3.5 mm

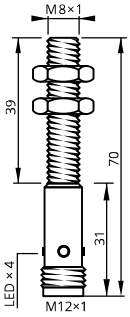
unshielded
nicht bündig
M8×1 | 3.5 mm

unshielded
nicht bündig
M8×1 | 3.5 mm

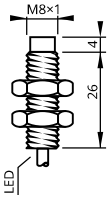
increased
erhöht



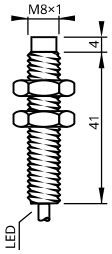
increased
erhöht



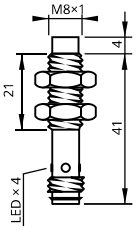
increased
erhöht



increased
erhöht



increased
erhöht



2 mm		2 mm		3.5 mm		3.5 mm		3.5 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		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	
–25...+70 °C		–25...+70 °C		–25...+70 °C		–25...+70 °C		–25...+70 °C	
IP69k, IP67 connector		IP69k, IP67 connector		IP69k, IP67 connector		IP69k, IP67 connector		IP69k, IP67 connector	
SS304	V2A	SS304	V2A	SS304	V2A	SS304	V2A	SS304	V2A
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
conn. M8	M8-Stecker	conn. M12	M12-Stecker	PVC, ultra-flex		PVC, ultra-flex		conn. M8	M8-Stecker
IMF8-S2PO60-A8		IMF8-S2PO70-A12		IMF8-N4PO30-A2P		IMF8-N4PO45-A2P		IMF8-N4PO45-A8	
IMF8-S2PC60-A8		IMF8-S2PC70-A12		IMF8-N4PC30-A2P		IMF8-N4PC45-A2P		IMF8-N4PC45-A8	
IMF8-S2NO60-A8		IMF8-S2NO70-A12		IMF8-N4NO30-A2P		IMF8-N4NO45-A2P		IMF8-N4NO45-A8	
IMF8-S2NC60-A8		IMF8-S2NC70-A12		IMF8-N4NC30-A2P		IMF8-N4NC45-A2P		IMF8-N4NC45-A8	

Xecro reserves the right to make minor changes without prior notification.
Xecro behält sich das Recht auf geringe Änderungen ohne Ankündigung vor.

Inductive Proximity Switch
3-Wire DC Metal Face

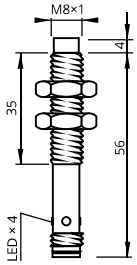
Induktive Näherungsschalter
3-Leiter DC Vollmetallgehäuse

unshielded
nicht bündig
M8×1 | 3.5 mm

unshielded
nicht bündig
M8×1 | 3.5 mm

shielded
bündig
M12×1 | 4 mm

increased
erhöht



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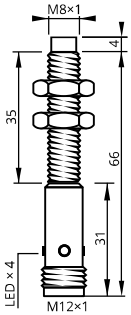
erhöht



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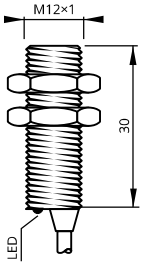
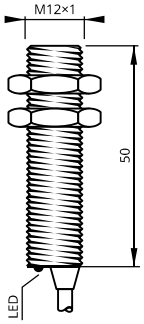
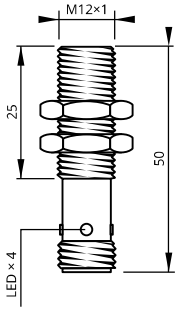
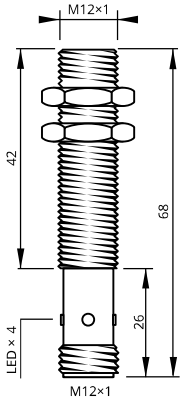
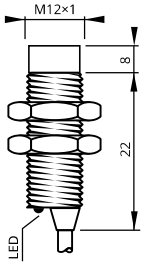
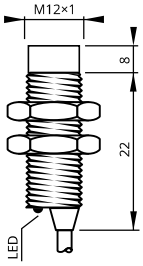
erhöht



Sensing distance S_n	**Schaltabstand S_n**	**3.5 mm**		**3.5 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	Kurzschlussschutz	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		500 Hz	
Correction factors	Korrekturfaktoren	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...+70 °C		–25...+70 °C		–25...+70 °C	
Protection class	Schutzklasse	IP69k, IP67 connector		IP69k, IP67 connector		IP69k, IP67 connector	
Sensing face	Sensorfläche	SS304	V2A	SS304	V2A	SS304	V2A
Housing material	Gehäusewerkstoff	SS304	V2A	SS304	V2A	SS304	V2A
Switching indicator	Schaltanzeige	built-in	integriert	built-in	integriert	built-in	integriert
Connection	Anschluss	conn. M8	M8-Stecker	conn. M12	M12-Stecker	PVC, ultra-flex	
Article code PNP, NO	⎍	IMF8-N4PO60-A8		IMF8-N4PO70-A12		IMF12-S4PO30-A2P	
Article code PNP, NC	⎍̸	IMF8-N4PC60-A8		IMF8-N4PC70-A12		IMF12-S4PC30-A2P	
Article code NPN, NO	⎍	IMF8-N4NO60-A8		IMF8-N4NO70-A12		IMF12-S4NO30-A2P	
Article code NPN, NC	⎍̸	IMF8-N4NC60-A8		IMF8-N4NC70-A12		IMF12-S4NC30-A2P	

Mind O ≠ 0, I ≠ l ≠ 1, S ≠ 5, B ≠ 8. O ≠ 0, I ≠ l ≠ 1, S ≠ 5, B ≠ 8 beachten.

shielded bündig **M12×1 | 4 mm**	shielded bündig **M12×1 | 4 mm**	shielded bündig **M12×1 | 4 mm**	unshielded nicht bündig **M12×1 | 6 mm**	unshielded nicht bündig **M12×1 | 6 mm**
increased erhöht	increased erhöht	increased erhöht	increased erhöht	increased erhöht
				

4 mm	**4 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
–25...+70 °C	–25...+70 °C	–25...+70 °C	–25...+70 °C	–25...+70 °C
IP69k, IP67 connector	IP69k, IP67 connector	IP69k, IP67 connector	IP69k, IP67 connector	IP69k, IP67 connector
SS304 V2A	SS304 V2A	SS304 V2A	SS304 V2A	SS304 V2A
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
PVC, ultra-flex	conn. M12 M12-Stecker	conn. M12 M12-Stecker	PVC, ultra-flex	PVC, ultra-flex
IMF12-S4PO50-A2P	IMF12-S4PO50-A12	IMF12-S4PO68-A12	IMF12-N6PO30-A2P	IMF12-N6PO50-A2P
IMF12-S4PC50-A2P	IMF12-S4PC50-A12	IMF12-S4PC68-A12	IMF12-N6PC30-A2P	IMF12-N6PC50-A2P
IMF12-S4NO50-A2P	IMF12-S4NO50-A12	IMF12-S4NO68-A12	IMF12-N6NO30-A2P	IMF12-N6NO50-A2P
IMF12-S4NC50-A2P	IMF12-S4NC50-A12	IMF12-S4NC68-A12	IMF12-N6NC30-A2P	IMF12-N6NC50-A2P

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Xecro behält sich das Recht auf geringe Änderungen ohne Ankündigung vor.

Inductive Proximity Switch
3-Wire DC Metal Face

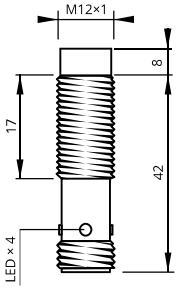
Induktive Näherungsschalter
3-Leiter DC Vollmetallgehäuse

unshielded
nicht bündig
M12×1 | 6 mm

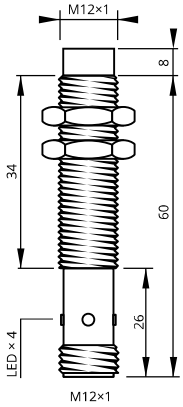
unshielded
nicht bündig
M12×1 | 6 mm

shielded
bündig
M18×1 | 8 mm

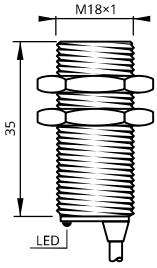
increased
erhöht



increased
erhöht

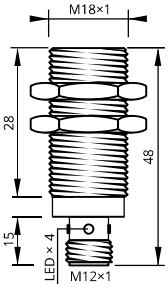
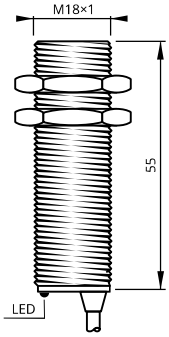
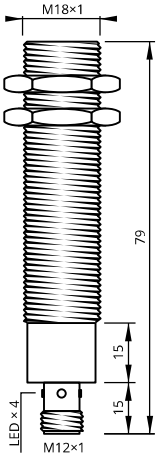
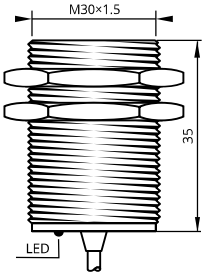
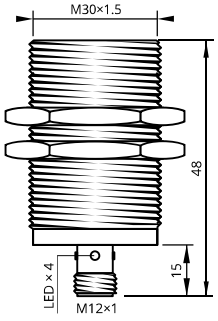


increased
erhöht



Sensing distance S_n	**Schaltabstand S_n**	**6 mm**	**6 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	Kurzschlussschutz	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	400 Hz
Correction factors	Korrekturfaktoren	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...+70 °C	–25...+70 °C	–25...+70 °C
Protection class	Schutzklasse	IP69k, IP67 connector	IP69k, IP67 connector	IP69k, IP67 connector
Sensing face	Sensorfläche	SS304 V2A	SS304 V2A	SS304 V2A
Housing material	Gehäusewerkstoff	SS304 V2A	SS304 V2A	SS304 V2A
Switching indicator	Schaltanzeige	built-in integriert	built-in integriert	built-in integriert
Connection	Anschluss	conn. M12 M12-Stecker	conn. M12 M12-Stecker	PVC, ultra-flex
Article code PNP, NO	⎍	IMF12-N6PO50-A12	IMF12-N6PO68-A12	IMF18-S8PO35-A2P
Article code PNP, NC	⎍	IMF12-N6PC50-A12	IMF12-N6PC68-A12	IMF18-S8PC35-A2P
Article code NPN, NO	⎍	IMF12-N6NO50-A12	IMF12-N6NO68-A12	IMF18-S8NO35-A2P
Article code NPN, NC	⎍	IMF12-N6NC50-A12	IMF12-N6NC68-A12	IMF18-S8NC35-A2P

Mind O ≠ 0, I ≠ l ≠ 1, S ≠ 5, B ≠ 8. O ≠ 0, I ≠ l ≠ 1, S ≠ 5, B ≠ 8 beachten.

shielded bündig **M18×1 | 8 mm**	shielded bündig **M18×1 | 8 mm**	shielded bündig **M18×1 | 8 mm**	shielded bündig **M18×1 | 10 mm**	shielded bündig **M18×1 | 10 mm**
increased erhöht	increased erhöht	increased erhöht	increased erhöht	increased erhöht
				

8 mm	**8 mm**	**8 mm**	**10 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
400 Hz	400 Hz	400 Hz	200 Hz	200 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...+70 °C	–25...+70 °C	–25...+70 °C	–25...+70 °C	–25...+70 °C
IP69k, IP67 connector	IP69k, IP67 connector	IP69k, IP67 connector	IP69k, IP67 connector	IP69k, IP67 connector
SS304 V2A	SS304 V2A	SS304 V2A	SS304 V2A	SS304 V2A
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
conn. M12 M12-Stecker	PVC, ultra-flex	conn. M12 M12-Stecker	PVC, ultra-flex	conn. M12 M12-Stecker
IMF18-S8PO48-A12	IMF18-S8PO55-A2P	IMF18-S8PO79-A12	IMF30-S10PO35-A2P	IMF30-S10PO48-A12
IMF18-S8PC48-A12	IMF18-S8PC55-A2P	IMF18-S8PC79-A12	IMF30-S10PC35-A2P	IMF30-S10PC48-A12
IMF18-S8NO48-A12	IMF18-S8NO55-A2P	IMF18-S8NO79-A12	IMF30-S10NO35-A2P	IMF30-S10NO48-A12
IMF18-S8NC48-A12	IMF18-S8NC55-A2P	IMF18-S8NC79-A12	IMF30-S10NC35-A2P	IMF30-S10NC48-A12

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Xecro behält sich das Recht auf geringe Änderungen ohne Ankündigung vor.

Inductive Proximity Switch
3-Wire DC Metal Face

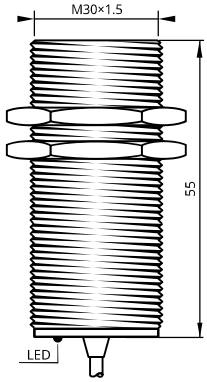
Induktive Näherungsschalter
3-Leiter DC Vollmetallgehäuse

shielded
bündig
M18×1 | 10 mm

shielded
bündig
M18×1 | 10 mm

unshielded
nicht bündig
M18×1 | 15 mm

increased
erhöht



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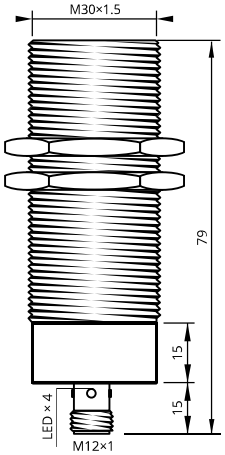
erhöht



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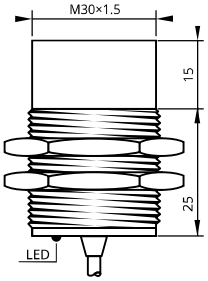


Sensing distance S_n	**Schaltabstand S_n**	**10 mm**	**10 mm**	**15 mm**
Operating voltage	Betriebsspannung	10...30 V_{DC}	10...30 V_{DC}	10...30 V_{DC}
Reverse polarity protection	Verpolungsschutz	built-in integriert	built-in integriert	built-in integriert
Current consumption	Stromverbrauch	<8 mA	<8 mA	<8 mA
Current load capability	Ausgangsbelastbarkeit	200 mA	200 mA	200 mA
Short circuit protection	Kurzschlussschutz	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	200 Hz	200 Hz	100 Hz
Correction factors	Korrekturfaktoren	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...+70 °C	–25...+70 °C	–25...+70 °C
Protection class	Schutzklasse	IP69k, IP67 connector	IP69k, IP67 connector	IP69k, IP67 connector
Sensing face	Sensorfläche	SS304 V2A	SS304 V2A	SS304 V2A
Housing material	Gehäusewerkstoff	SS304 V2A	SS304 V2A	SS304 V2A
Switching indicator	Schaltanzeige	built-in integriert	built-in integriert	built-in integriert
Connection	Anschluss	PVC, ultra-flex	conn. M12 M12-Stecker	PVC, ultra-flex
Article code PNP, NO	⎍	IMF30-S10PO55-A2P	IMF30-S10PO79-A12	IMF30-N15PO40-A2P
Article code PNP, NC	⎍	IMF30-S10PC55-A2P	IMF30-S10PC79-A12	IMF30-N15PC40-A2P
Article code NPN, NO	⎍	IMF30-S10NO55-A2P	IMF30-S10NO79-A12	IMF30-N15NO40-A2P
Article code NPN, NC	⎍	IMF30-S10NC55-A2P	IMF30-S10NC79-A12	IMF30-N15NC40-A2P

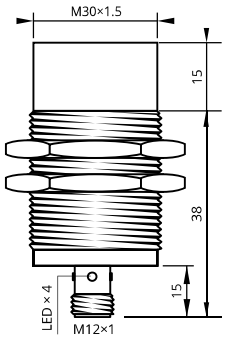
Mind O ≠ 0, I ≠ l ≠ 1, S ≠ 5, B ≠ 8. O ≠ 0, I ≠ l ≠ 1, S ≠ 5, B ≠ 8 beachten.

unshielded
nicht bündig
M18×1 | 15 mm

unshielded
nicht bündig
M18×1 | 15 mm

unshielded
nicht bündig
M18×1 | 15 mm

increased
erhöht



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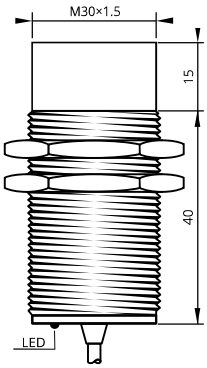
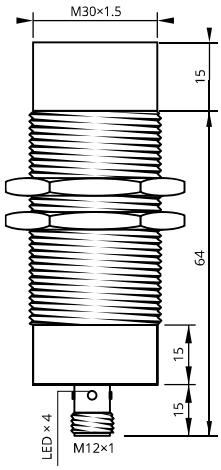
erhöht



increased
erhöht



15 mm		**15 mm**		**15 mm**	
10...30 V_{DC}		10...30 V_{DC}		10...30 V_{DC}	
built-in	integriert	built-in	integriert	built-in	integriert
<8 mA		<8 mA		<8 mA	
200 mA		200 mA		200 mA	
built-in	integriert	built-in	integriert	built-in	integriert
<1.5 V @ 200 mA		<1.5 V @ 200 mA		<1.5 V @ 200 mA	
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	
–25...+70 °C		–25...+70 °C		–25...+70 °C	
IP69k, IP67 connector		IP69k, IP67 connector		IP69k, IP67 connector	
SS304	V2A	SS304	V2A	SS304	V2A
SS304	V2A	SS304	V2A	SS304	V2A
built-in	integriert	built-in	integriert	built-in	integriert
conn. M12	M12-Stecker	PVC, ultra-flex		conn. M12	M12-Stecker
IMF30-N15PO53-A12		IMF30-N15PO55-A2P		IMF30-N15PO79-A12	
IMF30-N15PC53-A12		IMF30-N15PC55-A2P		IMF30-N15PC79-A12	
IMF30-N15NO53-A12		IMF30-N15NO55-A2P		IMF30-N15NO79-A12	
IMF30-N15NC53-A12		IMF30-N15NC55-A2P		IMF30-N15NC79-A12	

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