

Benefits:

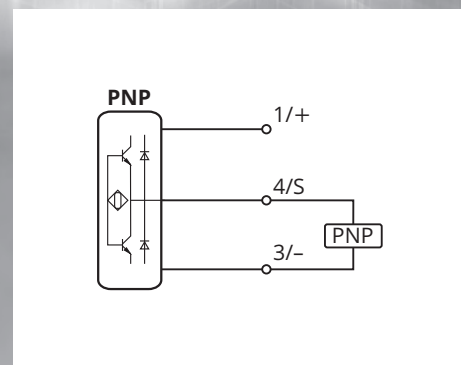
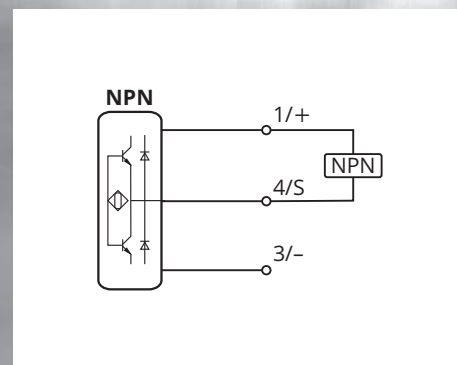
- ▶ Pressure proof up to 1000 bar (14503 psi)
- ▶ Stainless steel housing (SS304)
- ▶ Sensing face made of stainless steel or ceramic
- ▶ Optional LED switching indicator simplifies the mechanical set-up

Vorteile:

- ▶ Hochdruckfest bis zu 1000 bar (14503 psi)
- ▶ Edelstahlgehäuse (V2A)
- ▶ Sensorfläche aus Keramik oder Edelstahl
- ▶ Optionale LED-Schaltanzeige vereinfacht die mechanische Einrichtung


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 High Pressure Proof

Precise position sensing that operates under high pressure requires well-constructed sensors. XECRO fulfills these requirements with the wide range of High Pressure Series sensors produced with two specialized techniques. These techniques result in a permanent pressure-proof level of up to 1000 bar (14503 psi).

Sensors for pressures of up to 500 bar (7251 psi) contain a conventional ceramic sealing to separate both the ferrite coil combination and the processor electronics from the pressure-facing section of the housing. To achieve outstanding pressure resistance, XECRO manufactures selected High Pressure Sensors with Metal-Face housings, which means that the housing consists of one continuous piece of stainless steel including the sensing face. This full-metal construction offers excellent peak-pressure immunity and endure even under the harshest environments.

Most sensors of the High Pressure Series from XECRO are available with a built-in LED switching indicator to simplify the mechanical set-up.

Die präzise Positionsbestimmung unter Hochdruck erfordert gut konstruierte Sensoren. XECRO erfüllt diese Anforderungen mit einer großen Auswahl an hochdruckfesten Sensoren, die auf zwei unterschiedlichen Techniken basieren. Diese Produktionsverfahren ergeben eine dauerhafte Druckfestigkeit bis zu 1000 bar (14503 psi).

Sensoren mit einer Druckfestigkeit bis zu 500 bar enthalten eine übliche Keramikdichtplatte, um die Ferritspulen-Kombination und die Auswerteelektronik von der Druckseite zu trennen. Um eine außergewöhnliche Widerstandsfähigkeit bei hohen Drücken zu erreichen, fertigt XECRO einige Sensoren mit Vollmetallgehäusen, so dass der Sensor aus einem durchgehenden Edelstahlgehäuse einschließlich der Sensorfläche besteht. Diese Konstruktion bietet ausgezeichnete Festigkeit gegen Druckspitzen und besteht auch unter den härtesten Bedingungen.

Zur Erleichterung der Montage sind nahezu alle druckfesten Sensoren von XECRO mit einer LED-Schaltanzeige erhältlich.

## Inductive Proximity Switch 3-Wire DC High Pressure Proof

## Induktive Näherungsschalter 3-Leiter DC Hochdruckfest

flush  
bündig  
M12x1 | 1.5 mm



500 bar · 7251 psi

flush  
bündig  
M12x1 | 1.5 mm

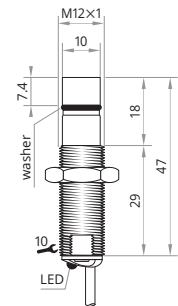
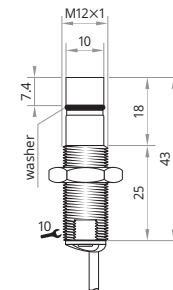
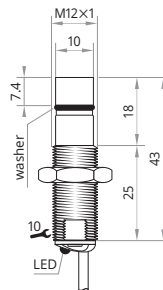


500 bar · 7251 psi

flush  
bündig  
M12x1 | 1.5 mm



500 bar · 7251 psi

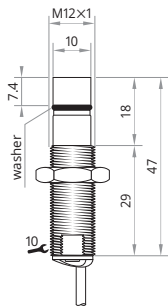


Sensing distance $S_n$	Schaltabstand $S_n$	1.5 mm	1.5 mm	1.5 mm
Operating voltage	Betriebsspannung	10...30 V <sub>DC</sub>	10...30 V <sub>DC</sub>	10...30 V <sub>DC</sub>
Reverse polarity protection	Verpolungsschutz	built-in integriert	built-in integriert	built-in integriert
Current consumption	Stromverbrauch	<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	-25...+70 °C	-25...+70 °C	-25...+70 °C
Protection class	Schutzklasse	IP 69k, IP 67	IP 69k, IP 67	IP 69k, IP 67
Sensing face material	Sensorflächenwerkstoff	ceramic Keramik	ceramic Keramik	ceramic Keramik
Housing material	Gehäusewerkstoff	SS304 V2A	SS304 V2A	SS304 V2A
Switching indicator	Schaltanzeige	built-in integriert	—	built-in integriert
Connection	Anschluss	PVC, ultra-flex	PVC, ultra-flex	PVC, ultra-flex
Article code PNP, NO	└┘	IHP12-S1.5PO43-A2P	IHP12-S1.5PO43-N2P	IHP12-S1.5PO47-A2P
Article code PNP, NC	└┘	IHP12-S1.5PC43-A2P	IHP12-S1.5PC43-N2P	IHP12-S1.5PC47-A2P
Article code NPN, NO	└┘	IHP12-S1.5NO43-A2P	IHP12-S1.5NO43-N2P	IHP12-S1.5NO47-A2P
Article code NPN, NC	└┘	IHP12-S1.5NC43-A2P	IHP12-S1.5NC43-N2P	IHP12-S1.5NC47-A2P

flush  
bündig  
M12x1 | 1.5 mm



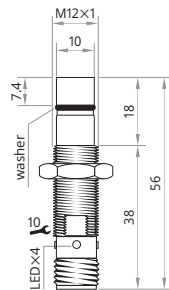
500 bar · 7251 psi



flush  
bündig  
M12x1 | 1.5 mm



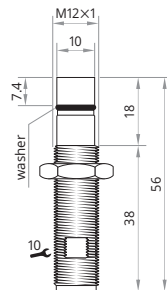
500 bar · 7251 psi



flush  
bündig  
M12x1 | 1.5 mm



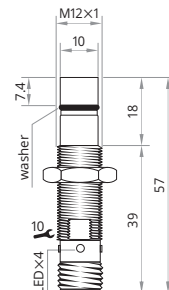
500 bar · 7251 psi



flush  
bündig  
M12x1 | 1.5 mm



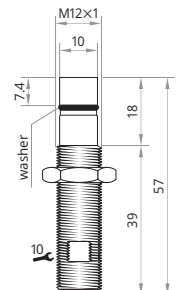
500 bar · 7251 psi



flush  
bündig  
M12x1 | 1.5 mm



500 bar · 7251 psi



1.5 mm		1.5 mm		1.5 mm		1.5 mm		1.5 mm	
10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>	
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	
-25...+70 °C		-25...+70 °C		-25...+70 °C		-25...+70 °C		-25...+70 °C	
IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67	
ceramic	Keramik	ceramic	Keramik	ceramic	Keramik	ceramic	Keramik	ceramic	Keramik
SS304	V2A	SS304	V2A	SS304	V2A	SS304	V2A	SS304	V2A
—	built-in	integriert	—	built-in	integriert	—	built-in	integriert	—
PVC, ultra-flex	conn. M12	Stecker M12	conn. M12	Stecker M12	conn. M12	Stecker M12	conn. M12	Stecker M12	conn. M12
IHP12-S1.5PO47-N2P	IHP12-S1.5PO56-A12	IHP12-S1.5PO56-N12	IHP12-S1.5PO57-A12	IHP12-S1.5PO57-N12	IHP12-S1.5PC47-N2P	IHP12-S1.5PC56-A12	IHP12-S1.5PC56-N12	IHP12-S1.5PC57-A12	IHP12-S1.5PC57-N12
IHP12-S1.5NO47-N2P	IHP12-S1.5NO56-A12	IHP12-S1.5NO56-N12	IHP12-S1.5NO57-A12	IHP12-S1.5NO57-N12	IHP12-S1.5NC47-N2P	IHP12-S1.5NC56-A12	IHP12-S1.5NC56-N12	IHP12-S1.5NC57-A12	IHP12-S1.5NC57-N12

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

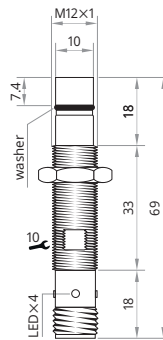
# Inductive Proximity Switch 3-Wire DC High Pressure Proof

## Induktive Näherungsschalter 3-Leiter DC Hochdruckfest

flush  
bündig  
M12x1 | 1.5 mm



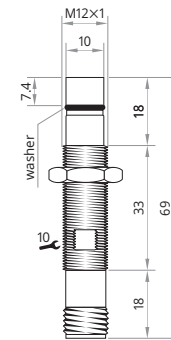
500 bar · 7251 psi



flush  
bündig  
M12x1 | 1.5 mm



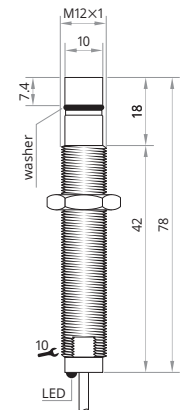
500 bar · 7251 psi



flush  
bündig  
M12x1 | 1.5 mm



500 bar · 7251 psi

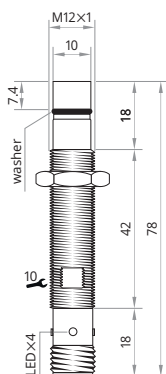


Sensing distance $S_n$	Schaltabstand $S_n$	1.5 mm		1.5 mm		1.5 mm	
Operating voltage	Betriebsspannung	10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>	
Reverse polarity protection	Verpolungsschutz	built-in	integriert	built-in	integriert	built-in	integriert
Current consumption	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	-25...+70 °C		-25...+70 °C		-25...+70 °C	
Protection class	Schutzklasse	IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67	
Sensing face material	Sensorflächenwerkstoff	ceramic	Keramik	ceramic	Keramik	ceramic	Keramik
Housing material	Gehäusewerkstoff	SS304	V2A	SS304	V2A	SS304	V2A
Switching indicator	Schaltanzeige	built-in	integriert	—		built-in	integriert
Connection	Anschluss	conn. M12	Stecker M12	conn. M12	Stecker M12	PVC, ultra-flex	
Article code PNP, NO	↘	IHP12-S1.5PO69-A12		IHP12-S1.5PO69-N12		IHP12-S1.5PO78-A2P	
Article code PNP, NC	↗	IHP12-S1.5PC69-A12		IHP12-S1.5PC69-N12		IHP12-S1.5PC78-A2P	
Article code NPN, NO	↘	IHP12-S1.5NO69-A12		IHP12-S1.5NO69-N12		IHP12-S1.5NO78-A2P	
Article code NPN, NC	↗	IHP12-S1.5NC69-A12		IHP12-S1.5NC69-N12		IHP12-S1.5NC78-A2P	

flush  
bündig  
M12x1 | 1.5 mm



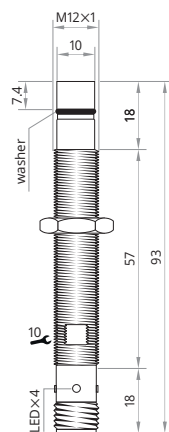
500 bar · 7251 psi



flush  
bündig  
M12x1 | 1.5 mm



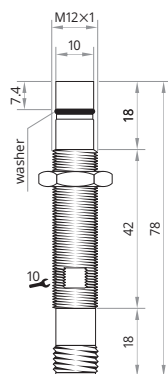
500 bar · 7251 psi



flush  
bündig  
M12x1 | 1.5 mm



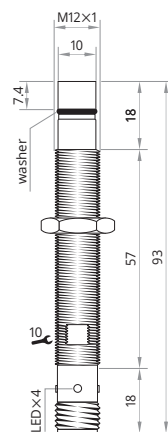
500 bar · 7251 psi



flush  
bündig  
M12x1 | 1.5 mm



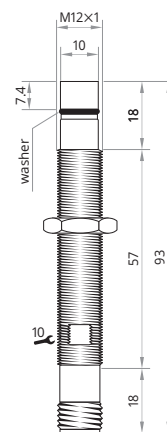
500 bar · 7251 psi



flush  
bündig  
M12x1 | 1.5 mm



500 bar · 7251 psi



1.5 mm		1.5 mm		1.5 mm		1.5 mm		1.5 mm	
10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>	
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	
-25...+70 °C		-25...+70 °C		-25...+70 °C		-25...+70 °C		-25...+70 °C	
IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67	
ceramic	Keramik	ceramic	Keramik	ceramic	Keramik	ceramic	Keramik	ceramic	Keramik
SS304	V2A	SS304	V2A	SS304	V2A	SS304	V2A	SS304	V2A
built-in	integriert	—	—	—	—	built-in	integriert	—	—
conn. M12	Stecker M12	PVC, ultra-flex	—	conn. M12	Stecker M12	conn. M12	Stecker M12	conn. M12	Stecker M12
IHP12-S1.5PO78-A12		IHP12-S1.5PO78-N2P		IHP12-S1.5PO78-N12		IHP12-S1.5PO93-A12		IHP12-S1.5PO93-N12	
IHP12-S1.5PC78-A12		IHP12-S1.5PC78-N2P		IHP12-S1.5PC78-N12		IHP12-S1.5PC93-A12		IHP12-S1.5PC93-N12	
IHP12-S1.5NO78-A12		IHP12-S1.5NO78-N2P		IHP12-S1.5NO78-N12		IHP12-S1.5NO93-A12		IHP12-S1.5NO93-N12	
IHP12-S1.5NC78-A12		IHP12-S1.5NC78-N2P		IHP12-S1.5NC78-N12		IHP12-S1.5NC93-A12		IHP12-S1.5NC93-N12	

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Inductive Proximity Switch  
**3-Wire DC High Pressure Proof**

Induktive Näherungsschalter  
**3-Leiter DC Hochdruckfest**

flush  
bündig  
**M12x1 | 1.5 mm**



500 bar · 7251 psi

flush  
bündig  
**M12x1 | 1.5 mm**

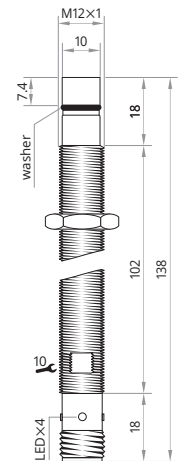
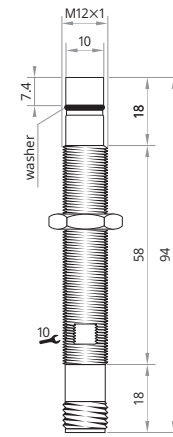
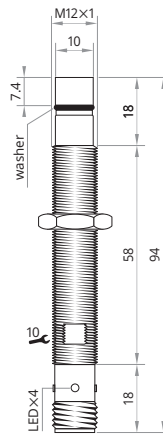


500 bar · 7251 psi

flush  
bündig  
**M12x1 | 1.5 mm**



500 bar · 7251 psi



Sensing distance $S_n$	Schaltabstand $S_n$	1.5 mm		1.5 mm		1.5 mm	
Operating voltage	Betriebsspannung	10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>	
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	-25...+70 °C		-25...+70 °C		-25...+70 °C	
Protection class	Schutzklasse	IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67	
Sensing face material	Sensorflächenwerkstoff	ceramic	Keramik	ceramic	Keramik	ceramic	Keramik
Housing material	Gehäusewerkstoff	SS304	V2A	SS304	V2A	SS304	V2A
Switching indicator	Schaltanzeige	built-in	integriert	—		built-in	integriert
Connection	Anschluss	conn. M12	Stecker M12	conn. M12	Stecker M12	conn. M12	Stecker M12
Article code PNP, NO	↘	IHP12-S1.5PO94-A12		IHP12-S1.5PO94-N12		IHP12-S1.5PO138-A12	
Article code PNP, NC	↗	IHP12-S1.5PC94-A12		IHP12-S1.5PC94-N12		IHP12-S1.5PC138-A12	
Article code NPN, NO	↘	IHP12-S1.5NO94-A12		IHP12-S1.5NO94-N12		IHP12-S1.5NO138-A12	
Article code NPN, NC	↗	IHP12-S1.5NC94-A12		IHP12-S1.5NC94-N12		IHP12-S1.5NC138-A12	

flush  
bündig  
M12x1 | 1.5 mm



500 bar · 7251 psi

flush  
bündig  
M12x1 | 2 mm



500 bar · 7251 psi

flush  
bündig  
M12x1 | 2 mm



500 bar · 7251 psi

flush  
bündig  
M12x1 | 2 mm

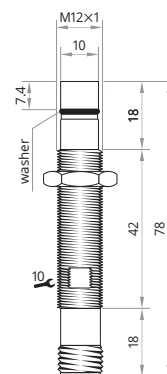
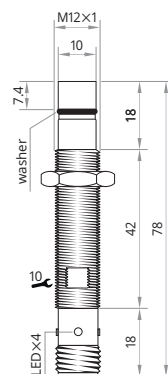
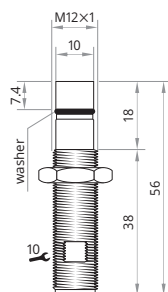
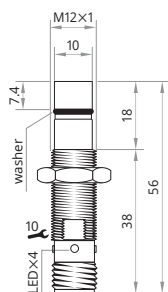
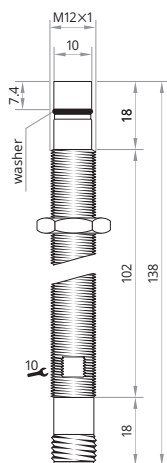


500 bar · 7251 psi

flush  
bündig  
M12x1 | 2 mm



500 bar · 7251 psi



1.5 mm		2 mm		2 mm		2 mm		2 mm	
10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>	
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	
-25...+70 °C		-25...+70 °C		-25...+70 °C		-25...+70 °C		-25...+70 °C	
IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67	
ceramic	Keramik	ceramic	Keramik	ceramic	Keramik	ceramic	Keramik	ceramic	Keramik
SS304	V2A	SS304	V2A	SS304	V2A	SS304	V2A	SS304	V2A
—		built-in	integriert	—		built-in	integriert	—	
conn. M12	Stecker M12	conn. M12	Stecker M12	conn. M12	Stecker M12	conn. M12	Stecker M12	conn. M12	Stecker M12
IHP12-S1.5PO138-N12		IHP12-S2PO56-A12		IHP12-S2PO56-N12		IHP12-S2PO78-A12		IHP12-S2PO78-N12	
IHP12-S1.5PC138-N12		IHP12-S2PC56-A12		IHP12-S2PC56-N12		IHP12-S2PC78-A12		IHP12-S2PC78-N12	
IHP12-S1.5NO138-N12		IHP12-S2NO56-A12		IHP12-S2NO56-N12		IHP12-S2NO78-A12		IHP12-S2NO78-N12	
IHP12-S1.5NC138-N12		IHP12-S2NC56-A12		IHP12-S2NC56-N12		IHP12-S2NC78-A12		IHP12-S2NC78-N12	



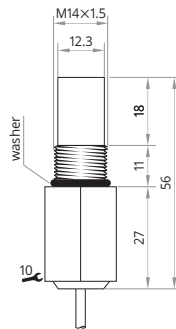
Inductive Proximity Switch  
**3-Wire DC High Pressure Proof**

Induktive Näherungsschalter  
**3-Leiter DC Hochdruckfest**

flush  
bündig  
**M14x1.5 | 3 mm**



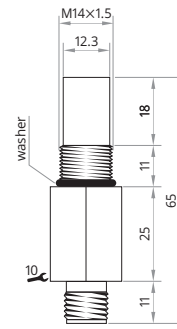
500 bar · 7251 psi



flush  
bündig  
**M14x1.5 | 3 mm**



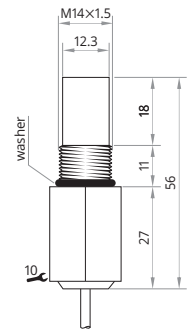
500 bar · 7251 psi



flush  
bündig  
**M14x1.5 | 3 mm**



1000 bar · 14503 psi



Sensing distance $S_n$	Schaltabstand $S_n$	3 mm		3 mm		3 mm	
Operating voltage	Betriebsspannung	10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>	
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		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	-25...+70 °C		-25...+70 °C		-25...+70 °C	
Protection class	Schutzklasse	IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67	
Sensing face material	Sensorflächenwerkstoff	ceramic	Keramik	ceramic	Keramik	SS304	V2A
Housing material	Gehäusewerkstoff	SS304	V2A	SS304	V2A	SS304	V2A
Switching indicator	Schaltanzeige	—		—		—	
Connection	Anschluss	conn. M12	Stecker M12	conn. M12	Stecker M12	conn. M12	Stecker M12
Article code PNP, NO	└┘	IHP14-S3PO56-N2P		IHP14-S3PO65-N12		IHP14-S3PO56S-N2P	
Article code PNP, NC	└┘	IHP14-S3PC56-N2P		IHP14-S3PC65-N12		IHP14-S3PC56S-N2P	
Article code NPN, NO	└┘	IHP14-S3NO56-N2P		IHP14-S3NO65-N12		IHP14-S3NO56S-N2P	
Article code NPN, NC	└┘	IHP14-S3NC56-N2P		IHP14-S3NC65-N12		IHP14-S3NC56S-N2P	

flush  
bündig  
M14×1.5 | 3 mm



1000 bar · 14503 psi

flush  
bündig  
M14×1.5 | 3 mm



1000 bar · 14503 psi

flush  
bündig  
M14×1.5 | 3 mm



1000 bar · 14503 psi

flush  
bündig  
M14×1.5 | 3 mm

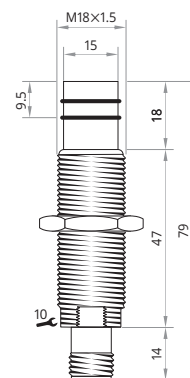
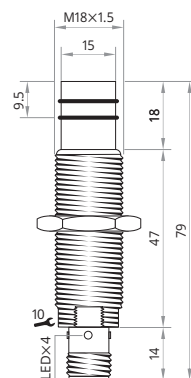
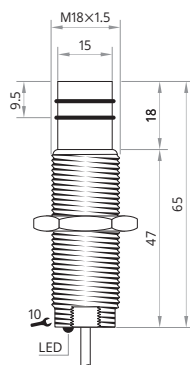
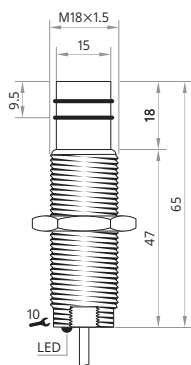
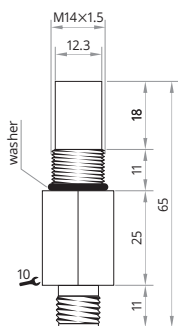


1000 bar · 14503 psi

flush  
bündig  
M14×1.5 | 3 mm



1000 bar · 14503 psi



3 mm		3 mm		3 mm		3 mm		3 mm	
10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>		10...30 V <sub>DC</sub>	
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		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	
-25...+70 °C		-25...+70 °C		-25...+70 °C		-25...+70 °C		-25...+70 °C	
IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67		IP 69k, IP 67	
SS304	V2A	ceramic	Keramik	ceramic	Keramik	ceramic	Keramik	ceramic	Keramik
SS304	V2A	SS304	V2A	SS304	V2A	SS304	V2A	SS304	V2A
—		built-in	integriert	—		built-in	integriert	—	
conn. M12	Stecker M12	conn. M12	Stecker M12	conn. M12	Stecker M12	conn. M12	Stecker M12	conn. M12	Stecker M12
IHP14-S3PO65S-N12		IHP18-S3PO65S-A2P		IHP18-S3PO65S-N2P		IHP18-S3PO79S-A12		IHP18-S3PO79S-N12	
IHP14-S3PC65S-N12		IHP18-S3PC65S-A2P		IHP18-S3PC65S-N2P		IHP18-S3PC79S-A12		IHP18-S3PC79S-N12	
IHP14-S3NO65S-N12		IHP18-S3NO65S-A2P		IHP18-S3NO65S-N2P		IHP18-S3NO79S-A12		IHP18-S3NO79S-N12	
IHP14-S3NC65S-N12		IHP18-S3NC65S-A2P		IHP18-S3NC65S-N2P		IHP18-S3NC79S-A12		IHP18-S3NC79S-N12	