

COMPACT CATALOG

KOMPAKTKATALOG

LED INDICATORS

LED-ANZEIGEN

SMART BUTTONS

ELEKTRONISCHE TASTER

PHOTOELECTRIC SENSORS

OPTISCHE SENSOREN

CYLINDER POSITION SENSORS

SENSOREN FÜR PNEUMATIKZYLINDER

INDUCTIVE PROXIMITY SWITCHES

INDUKTIVE NÄHERUNGSSCHALTER

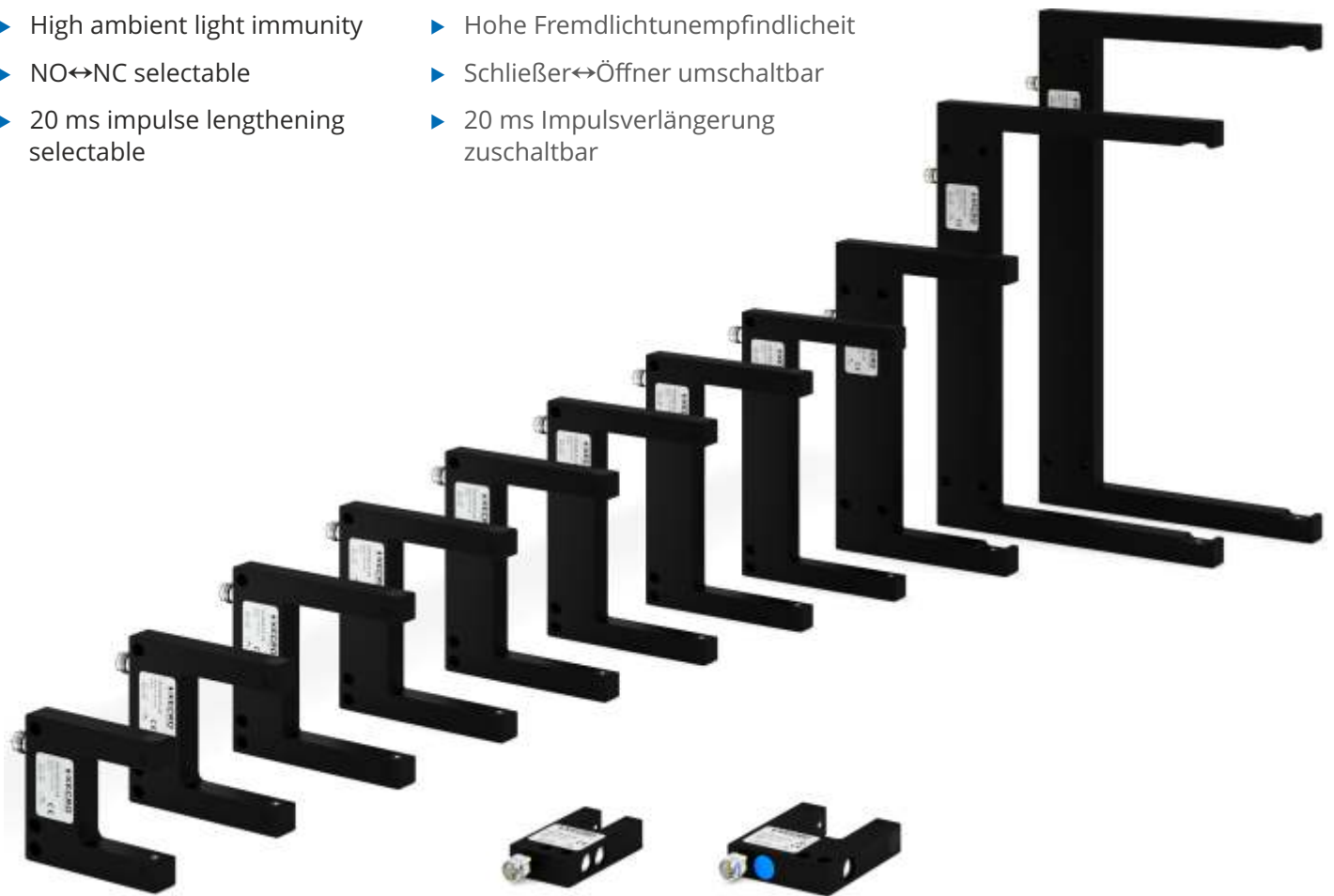
CAPACITIVE PROXIMITY SWITCHES

KAPAZITIVE NÄHERUNGSSCHALTER



Fork Light Barriers Gabellichtschranken

- ▶ One-piece housings only
- ▶ Identical dimensions for laser, red light, and infrared light versions
- ▶ Potentiometer or Teach-in button
- ▶ Static and dynamic evaluation
- ▶ High switching frequency
- ▶ High ambient light immunity
- ▶ NO↔NC selectable
- ▶ 20 ms impulse lengthening selectable
- ▶ Ausschließlich einteilige Gehäuse
- ▶ Identische Abmessungen für Laser-, Rotlicht- und Infrarotlicht-Ausführungen
- ▶ Potentiometer oder Einlern-Taste
- ▶ Statische und dynamische Auswertung
- ▶ Hohe Schaltfrequenz
- ▶ Hohe Fremdlichtunempfindlichkeit
- ▶ Schließer↔Öffner umschaltbar
- ▶ 20 ms Impulsverlängerung zuschaltbar



Technical data (typ.)

Supply voltage	10...35 V _{DC}
Reverse polarity protection	built-in
Current consumption	<40 mA
Current load capability	200 mA
Short circuit protection	built-in, self-resetting
Impulse lengthening	20 ms, selectable*
Red light · Infrared light	
Operating temperature	−20...+55 °C −4...+131 °F
Laser	
Operating temperature	−10...+45 °C 14...+113 °F
Laser protection class	1 (EN 60825-1)
Ambient light immunity	>100 klx
Switching indicator	LED, yellow
Housing material	zinc die-cast, powder coated
IP code	IP67

* selected models

Technische Daten (typ.)

Versorgungsspannung	10...35 V _{DC}
Verpolungsschutz	integriert
Stromaufnahme	<40 mA
Ausgangsbelastbarkeit	200 mA
Kurzschlusschutz	integriert, selbstrückstellend
Impulsverlängerung	20 ms, zuschaltbar*
Rotlicht · Infrarotlicht	
Betriebstemperatur	−20...+55 °C
Laser	
Betriebstemperatur	−10...+45 °C
Laserschutzklasse	1 (EN 60825-1)
Fremdlichtunempfindlichkeit	>100 klx
Schaltanzeige	LED, gelb
Gehäusematerial	Zinkdruckguss, pulverbeschichtet
Schutzart	IP67

* ausgewählte Modelle



Fork opening [mm] Gabelweite [mm] Resolution [Ø mm] Auflösung [Ø mm] Switching frequency [Hz] Schaltfrequenz [Hz] Repeatability [mm] Wiederholgenauigkeit [mm] Red light, λ = 630 nm, modulated Rotlicht, λ = 630 nm, moduliert Infrared, λ = 940 nm, modulated Infrarot, λ = 940 nm, moduliert Potentiometer for sensitivity adjustment Potentiometer für Empfindlichkeitseinstellung Selectable impulse lengthening 20 ms Zuschaltbare Impulsverlängerung 20 ms IO-Link capable, protocol 1.1 IO-Link-fähig, Protokoll 1.1 Order code Bestellnummer										Teach-in button for sensitivity adjustment Einlern-Taste für Empfindlichkeitseinstellung Selectable impulse lengthening 20 ms Zuschaltbar Impulsverlängerung 20 ms IO-Link capable, protocol 1.1 IO-Link-fähig, Protokoll 1.1 Order code Bestellnummer			
Standard version · Standardausführung													
10	0.5	10000	0.02		✓	✓			FIS10P-PS-A8				
20	0.5	10000	0.02	✓		✓			FRS20P-PS-A8				
30	0.5	5000	0.02	✓		✓			FRS30P-PS-A8				
40	0.5	5000	0.02	✓		✓			FRS40P-PS-A8				
50	0.5	5000	0.02	✓		✓			FRS50P-PS-A8				
60	0.5	5000	0.02	✓		✓			FRS60P-PS-A8				
70	0.5	5000	0.02	✓		✓			FRS70P-PS-A8				
80	0.5	5000	0.02	✓		✓			FRS80P-PS-A8				
90	0.5	5000	0.02	✓		✓			FRS90P-PS-A8				
100	0.6	5000	0.02	✓		✓			FRS100P-PS-A8				
120	0.7	5000	0.02	✓		✓			FRS120P-PS-A8				
180	0.8	2500	0.02	✓		✓			FRS180P-PS-A8				
220	0.9	1250	0.02	✓		✓			FRS220P-PS-A8				
High resolution · Hochauflösend													
10	0.2	10000	0.01		✓	✓	✓		FIH10P-PS-A8	✓	✓	✓	FIH10T-PS-A8
20	0.2	10000	0.01	✓		✓	✓		FRH20P-PS-A8	✓	✓	✓	FRH20T-PS-A8
30	0.2	5000	0.01	✓		✓	✓		FRH30P-PS-A8	✓	✓	✓	FRH30T-PS-A8
40	0.2	5000	0.01	✓		✓	✓		FRH40P-PS-A8	✓	✓	✓	FRH40T-PS-A8
50	0.2	5000	0.01	✓		✓	✓		FRH50P-PS-A8	✓	✓	✓	FRH50T-PS-A8
60	0.2	5000	0.01	✓		✓	✓		FRH60P-PS-A8	✓	✓	✓	FRH60T-PS-A8
70	0.2	5000	0.01	✓		✓	✓		FRH70P-PS-A8	✓	✓	✓	FRH70T-PS-A8
80	0.2	5000	0.01	✓		✓	✓		FRH80P-PS-A8	✓	✓	✓	FRH80T-PS-A8
90	0.2	5000	0.01	✓		✓	✓		FRH90P-PS-A8	✓	✓	✓	FRH90T-PS-A8
100	0.2	5000	0.01	✓		✓	✓		FRH100P-PS-A8	✓	✓	✓	FRH100T-PS-A8
120	0.2	5000	0.01	✓		✓	✓		FRH120P-PS-A8	✓	✓	✓	FRH120T-PS-A8
180	0.2	2500	0.01	✓		✓	✓		FRH180P-PS-A8	✓	✓	✓	FRH180T-PS-A8
220	0.2	1250	0.01	✓		✓	✓		FRH220P-PS-A8	✓	✓	✓	FRH220T-PS-A8





Fork opening [mm] Gabelweite [mm] Resolution [µm] Auflösung [µm] Switching frequency [Hz] Schaltfrequenz [Hz] Repeatability [mm] Wiederholgenauigkeit [mm] Red light, λ = 630 nm, modulated Rotlicht, λ = 630 nm, moduliert Infrared, λ = 940 nm, modulated Infrarot, λ = 940 nm, moduliert Potentiometer for sensitivity adjustment Potentiometer für Empfindlichkeitseinstellung Selectable power-on delay 0.4 s Zuschaltbare Einschaltverzögerung 0.4 s IO-Link capable, protocol 1.1 IO-Link-fähig, Protokoll 1.1 Order code Bestellnummer Teach-in button for sensitivity adjustment Einlern-Taste für Empfindlichkeitseinstellung Selectable impulse lengthening 20 ms Zuschaltbar Impulsverlängerung 20 ms IO-Link capable, protocol 1.1 IO-Link-fähig, Protokoll 1.1 Order code Bestellnummer													
Dynamic evaluation · dynamische Auswertung													
10	0.2	10000	0.01		✓					✓	✓	✓	FIH10D-PS-A8
20	0.2	10000	0.01	✓						✓	✓	✓	FRH20D-PS-A8
30	0.2	5000	0.01	✓						✓	✓	✓	FRH30D-PS-A8
40	0.2	5000	0.01	✓						✓	✓	✓	FRH40D-PS-A8
50	0.2	5000	0.01	✓						✓	✓	✓	FRH50D-PS-A8
60	0.2	5000	0.01	✓						✓	✓	✓	FRH60D-PS-A8
70	0.2	5000	0.01	✓						✓	✓	✓	FRH70D-PS-A8
80	0.2	5000	0.01	✓						✓	✓	✓	FRH80D-PS-A8
90	0.2	5000	0.01	✓						✓	✓	✓	FRH90D-PS-A8
100	0.2	5000	0.01	✓						✓	✓	✓	FRH100D-PS-A8
120	0.2	5000	0.01	✓						✓	✓	✓	FRH120D-PS-A8
180	0.2	2500	0.01	✓						✓	✓	✓	FRH180D-PS-A8
220	0.2	1250	0.01	✓						✓	✓	✓	FRH220D-PS-A8
increased contamination resistance · erhöhte Schmutzunempfindlichkeit													
10	0.5	10000	0.1		✓	✓	✓		FIC10P-PS-A8				
20	0.5	10000	0.1		✓	✓	✓		FIC20P-PS-A8				
30	0.5	5000	0.1		✓	✓	✓		FIC30P-PS-A8				
40	0.5	5000	0.1		✓	✓	✓		FIC40P-PS-A8				
50	0.5	5000	0.1		✓	✓	✓		FIC50P-PS-A8				
60	0.5	5000	0.1		✓	✓	✓		FIC60P-PS-A8				
70	0.5	5000	0.1		✓	✓	✓		FIC70P-PS-A8				
80	0.5	5000	0.1		✓	✓	✓		FIC80P-PS-A8				
90	0.5	5000	0.1		✓	✓	✓		FIC90P-PS-A8				
100	0.6	5000	0.1		✓	✓	✓		FIC100P-PS-A8				
120	0.7	5000	0.1		✓	✓	✓		FIC120P-PS-A8				
180	0.8	2500	0.1		✓	✓	✓		FIC180P-PS-A8				
220	0.9	1250	0.1		✓	✓	✓		FIC220P-PS-A8				

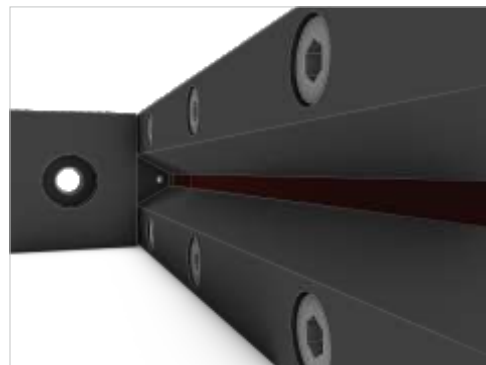
Fork opening [mm] Gabelweite [mm]	Resolution [Ø mm] Auflösung [Ø mm]	Switching frequency [Hz] Schaltfrequenz [Hz]	Repeatability [mm] Wiederholgenauigkeit [mm]	Red light laser, $\lambda = 630$ nm, modulated Rotlicht-Laser, $\lambda = 630$ nm, moduliert	Infrared, $\lambda = 940$ nm, modulated Infrarot, $\lambda = 940$ nm, moduliert	Potentiometer for sensitivity adjustment Potentiometer für Empfindlichkeitseinstellung	Selectable impulse lengthening 20 ms Zuschaltbare Impulsverlängerung 20 ms	IO-Link capable, protocol 1.1 IO-Link-fähig, Protokoll 1.1	Order code Bestellnummer	Teach-in button for sensitivity adjustment Einlern-taste für Empfindlichkeitseinstellung	Selectable impulse lengthening 20 ms Zuschaltbare Impulsverlängerung 20 ms	IO-Link capable, protocol 1.1 IO-Link-fähig, Protokoll 1.1	Order code Bestellnummer
 Laser standard version · Laser Standardausführung													
10													
20	0.1	10000	0.01	✓		✓			FLS20P-PS-A8				
30	0.1	5000	0.01	✓		✓			FLS30P-PS-A8				
40	0.1	5000	0.01	✓		✓			FLS40P-PS-A8				
50	0.1	5000	0.01	✓		✓			FLS50P-PS-A8				
60	0.1	5000	0.01	✓		✓			FLS60P-PS-A8				
70	0.1	5000	0.01	✓		✓			FLS70P-PS-A8				
80	0.1	5000	0.01	✓		✓			FLS80P-PS-A8				
90	0.1	5000	0.01	✓		✓			FLS90P-PS-A8				
100	0.1	5000	0.01	✓		✓			FLS100P-PS-A8				
120	0.1	5000	0.01	✓		✓			FLS120P-PS-A8				
180	0.1	2500	0.01	✓		✓			FLS180P-PS-A8				
220	0.1	1250	0.01	✓		✓			FLS220P-PS-A8				
 Laser high resolution · Laser hochauflösend													
10													
20	0.03	10000	0.01	✓		✓	✓		FLH20P-PS-A8	✓	✓	✓	FLH20T-PS-A8
30	0.03	5000	0.01	✓		✓	✓		FLH30P-PS-A8	✓	✓	✓	FLH30T-PS-A8
40	0.03	5000	0.01	✓		✓	✓		FLH40P-PS-A8	✓	✓	✓	FLH40T-PS-A8
50	0.03	5000	0.01	✓		✓	✓		FLH50P-PS-A8	✓	✓	✓	FLH50T-PS-A8
60	0.03	5000	0.01	✓		✓	✓		FLH60P-PS-A8	✓	✓	✓	FLH60T-PS-A8
70	0.03	5000	0.01	✓		✓	✓		FLH70P-PS-A8	✓	✓	✓	FLH70T-PS-A8
80	0.03	5000	0.01	✓		✓	✓		FLH80P-PS-A8	✓	✓	✓	FLH80T-PS-A8
90	0.03	5000	0.01	✓		✓	✓		FLH90P-PS-A8	✓	✓	✓	FLH90T-PS-A8
100	0.03	5000	0.01	✓		✓	✓		FLH100P-PS-A8	✓	✓	✓	FLH100T-PS-A8
120	0.03	5000	0.01	✓		✓	✓		FLH120P-PS-A8	✓	✓	✓	FLH120T-PS-A8
180	0.03	2500	0.01	✓		✓	✓		FLH180P-PS-A8	✓	✓	✓	FLH180T-PS-A8
220	0.03	1250	0.01	✓		✓	✓		FLH220P-PS-A8	✓	✓	✓	FLH220T-PS-A8



Frame Light Barriers

Rahmenlichtschranken

- ▶ Resolution from 0.3 mm
- ▶ Response time from 25 μ s
- ▶ Impact protection for optics
- ▶ Also with soft impact protection
- ▶ Static and dynamic evaluation, selectable
- ▶ Adjustable impulse lengthening
- ▶ High ambient light immunity
- ▶ Integrated blow-out connections
- ▶ Sturdy metal housing
- ▶ Auflösung ab 0,3 mm
- ▶ Ansprechzeit ab 25 μ s
- ▶ Prallschutz für Optik
- ▶ Wahlweise mit elastischem Prallschutz
- ▶ Statische und dynamische Auswertung, umschaltbar
- ▶ Einstellbare Impulsverlängerung
- ▶ Hohe Fremdlichtunempfindlichkeit
- ▶ Integrierte Freiblasanschlüsse
- ▶ Robustes Metallgehäuse



Reduced sensitivity by reflective objects approaching from the side
Geringere Empfindlichkeit durch reflektierende Objekte, die sich von der Seite nähern



Technical data (typ.)

Supply voltage	10...35 V _{DC}
Reverse polarity protection	built-in
Current consumption	<50 mA
Detecting — switching output	
Current load capability	200 mA
Short circuit protection	built-in, self-resetting
Impulse lengthening	...150 ms, adjustable
Measuring — analog output	
Output type	current
Output offset	0...4 mA, adjustable
Output range	20 mA, adjustable
Output invertible	yes
Ambient light immunity	100 klx
Housing material	aluminum, black anodized
Impact protector material	aluminum, black anodized
alternatively	nitrile rubber (shore A70)
Operating temperature	−20...+55 °C −4...+131 °F
IP code	IP67

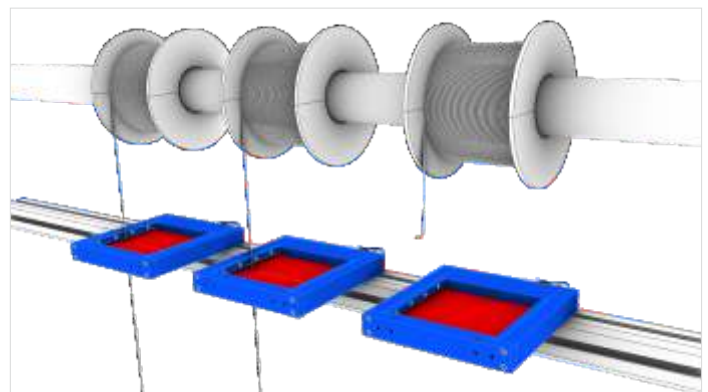
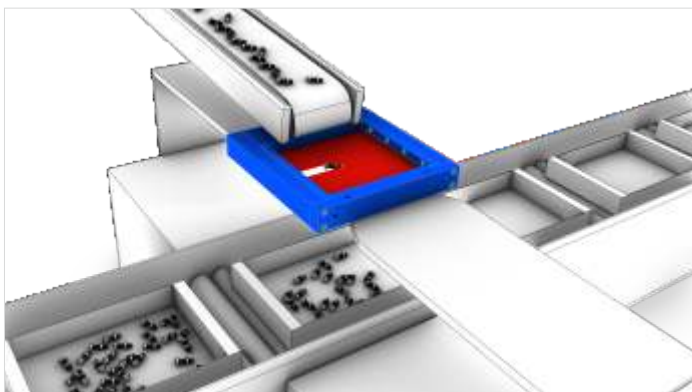
Technische Daten (typ.)

Versorgungsspannung	10...35 V _{DC}
Verpolungsschutz	integriert
Stromaufnahme	<50 mA
Erkennend – Schaltausgang	
Ausgangsbelaastbarkeit	200 mA
Kurzschlusschutz	integriert, selbstrückstellend
Impulsverlängerung	...150 ms, einstellbar
Messend – Analogausgang	
Ausgangstyp	Strom
Ausgangs-Offset	0...4 mA, einstellbar
Ausgangsbereich	20 mA, einstellbar
Ausgang umkehrbar	ja
Fremdlichtunempfindlichkeit	100 klx
Gehäusematerial	Aluminium, schwarz eloxiert
Prallschutzmaterial	Aluminium, schwarz eloxiert
alternativ	Nitrilkautschuk (shore A70)
Betriebstemperatur	−20...+55 °C
Schutzart	IP67



Active area [mm²] Aktive Fläche [mm²]		Resolution Auflösung		Ambient light immunity Fremdlichtunempfindlichkeit		Response time, release time Ansprechzeit, Abfallzeit		Dimensions, w × l × h Abmessungen, b × l × h		Output function Ausgangsfunktion		Output polarity Ausgangspolarität		Impact protector material Prallschutzwerkstoff		Order code Bestellnummer	
Standard																	
50×48	0.7 mm	200 klx	0.1 ms	90 × 100 × 20 mm	NO↔NC	PNP	Aluminum · Aluminium		OFT50A-PS-A8								
							Nitrile rubber · Nitrilkautschuk		OFT50N-PS-A8								
70×68	1.5 mm	100 klx	0.1 ms	110 × 118 × 20 mm	NO↔NC	PNP	Aluminum · Aluminium		OFT70A-PS-A8								
							Nitrile rubber · Nitrilkautschuk		OFT70N-PS-A8								
100×98	2.5 mm	60 klx	0.1 ms	140 × 148 × 20 mm	NO↔NC	PNP	Aluminum · Aluminium		OFT100A-PS-A8								
							Nitrile rubber · Nitrilkautschuk		OFT100N-PS-A8								
150×148	3.0 mm	30 klx	0.1 ms	190 × 198 × 20 mm	NO↔NC	PNP	Aluminum · Aluminium		OFT150A-PS-A8								
							Nitrile rubber · Nitrilkautschuk		OFT150N-PS-A8								
High resolution · Hochauflösend																	
50×48	0.3 mm	200 klx	0.1 ms	90 × 100 × 20 mm	NO↔NC	PNP	Aluminum · Aluminium		OFT50A-RPS-A8								
							Nitrile rubber · Nitrilkautschuk		OFT50N-RPS-A8								
70×68	0.4 mm	100 klx	0.1 ms	110 × 118 × 20 mm	NO↔NC	PNP	Aluminum · Aluminium		OFT70A-RPS-A8								
							Nitrile rubber · Nitrilkautschuk		OFT70N-RPS-A8								
100×98	0.6 mm	60 klx	0.1 ms	140 × 148 × 20 mm	NO↔NC	PNP	Aluminum · Aluminium		OFT100A-RPS-A8								
							Nitrile rubber · Nitrilkautschuk		OFT100N-RPS-A8								
150×148	0.8 mm	30 klx	0.1 ms	190 × 198 × 20 mm	NO↔NC	PNP	Aluminum · Aluminium		OFT150A-RPS-A8								
							Nitrile rubber · Nitrilkautschuk		OFT150N-RPS-A8								
High speed · Hochgeschwindigkeit																	
50×48	0.7 mm	200 klx	25 µs	90 × 100 × 20 mm	NO↔NC	PNP	Aluminum · Aluminium		OFT50A-SPS-A8								
							Nitrile rubber · Nitrilkautschuk		OFT50N-SPS-A8								
70×68	1.5 mm	100 klx	25 µs	110 × 118 × 20 mm	NO↔NC	PNP	Aluminum · Aluminium		OFT70A-SPS-A8								
							Nitrile rubber · Nitrilkautschuk		OFT70N-SPS-A8								
100×98	2.5 mm	60 klx	25 µs	140 × 148 × 20 mm	NO↔NC	PNP	Aluminum · Aluminium		OFT100A-SPS-A8								
							Nitrile rubber · Nitrilkautschuk		OFT100N-SPS-A8								
150×148	3.0 mm	30 klx	25 µs	190 × 198 × 20 mm	NO↔NC	PNP	Aluminum · Aluminium		OFT150A-SPS-A8								
							Nitrile rubber · Nitrilkautschuk		OFT150N-SPS-A8								
Analog output · Analogausgang																	
50×48	0.3 mm	200 klx	1 kHz	90 × 100 × 20 mm	Current Strom	4...20 mA	Aluminum · Aluminium		OF50A-AI420-A8								
70×68	0.4 mm	100 klx		110 × 118 × 20 mm			Aluminum · Aluminium		OF70A-AI420-A8								
100×98	0.6 mm	60 klx		140 × 148 × 20 mm			Aluminum · Aluminium		OF100A-AI420-A8								
150×148	0.8 mm	30 klx		190 × 198 × 20 mm			Aluminum · Aluminium		OF150A-AI420-A8								

Order codes are valid for PNP (PS) configuration. All devices also available in NPN (NS) configuration.
Bestellnummern gelten für PNP (PS) Konfiguration. Alle Geräte auch erhältlich als NPN (NS) Konfiguration.



Proximity Switches, inductive Näherungsschalter, induktiv

► Miniature, Ø3 mm...Ø5×5 mm Miniatur, Ø3 mm...Ø5×5 mm

- High performance with up to $4 \times S_n$
Hochleistung mit bis zu $4 \times S_n$
- Closed stainless steel housing with IP69k
Geschlossene Edelstahlgehäuse mit IP69k
- High temperature proof versions up to 180 °C | 356 °F
Hochtemperaturfeste Ausführungen bis 180 °C
- Low temperature –40 °C | –40 °F, food grade, IP69k
Tieftemperatur –40 °C, lebensmitteltauglich, IP69k
- Pressure proof versions up to 1000 bar | 14500 psi
Druckfeste Ausführungen bis 1000 bar
- Devices with analog output
Geräte mit Analogausgang
- 2-wire 10...55 V_{DC} | 20...250 V_{AC}
2-Leiter 10...55 V_{DC} | 20...250 V_{AC}

5000+
different proximity switches



Technical data (typ.)

Supply voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<10 mA
Current load capability	200 mA
Short circuit protection	built-in, self-resetting
Voltage drop	<1.2 V @ 200 mA
Switching indicator	LED, yellow
Operating temperature	–20...+70 °C –4...+158 °F
IP code	IP67

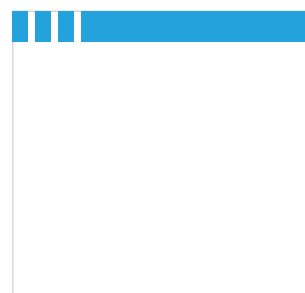
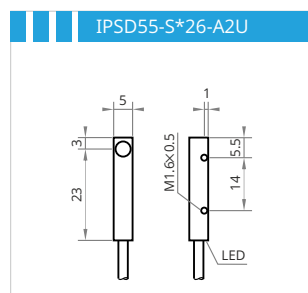
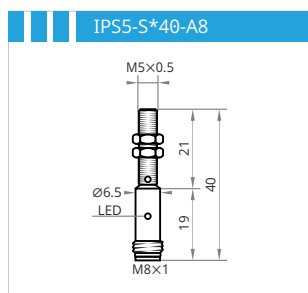
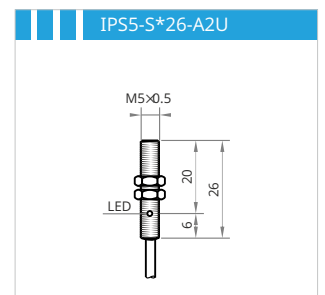
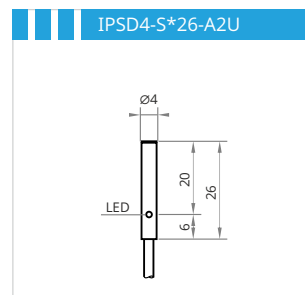
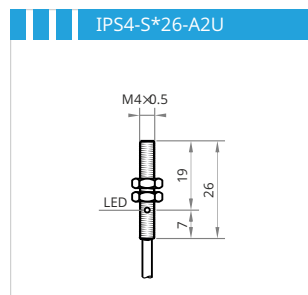
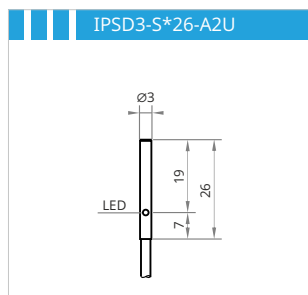
Technische Daten (typ.)

Versorgungsspannung	10...30 V _{DC}
Verpolungsschutz	integriert
Stromaufnahme	<10 mA
Ausgangsbelastbarkeit	200 mA
Kurzschlusschutz	integriert, selbstrückstellend
Spannungsabfall	<1,2 V @ 200 mA
Schaltanzeige	LED, gelb
Betriebstemperatur	–20...+70 °C
Schutzart	IP67



	Mounting Montage	S _n [mm]	Connection Anschluss	Housing length · Gehäuselänge [mm]		Housing material Gehäusematerial	Switching frequency Schaltfrequenz
				26	40		
Ø3 mm	●	0.6	Cable 2 m, PUR	IPSD3-S06PO26-A2U		Stainless steel Edelstahl	2000 Hz
			30 cm, PUR, M8	IPSD3-S06PO26-3U8		Stainless steel Edelstahl	2000 Hz
		1	Cable 2 m, PUR	IPSD3-S1PO26-A2U		Stainless steel Edelstahl	2000 Hz
			30 cm, PUR, M8	IPSD3-S1PO26-3U8		Stainless steel Edelstahl	2000 Hz
M4x0.5	●	0.6	Cable 2 m, PUR	IPSA-S06PO26-A2U		Stainless steel Edelstahl	2000 Hz
			30 cm, PUR, M8	IPSA-S06PO26-3U8		Stainless steel Edelstahl	2000 Hz
		1	Cable 2 m, PUR	IPSA-S1PO26-A2U		Stainless steel Edelstahl	2000 Hz
			30 cm, PUR, M8	IPSA-S1PO26-3U8		Stainless steel Edelstahl	2000 Hz
Ø4 mm	●	0.8	Cable 2 m, PUR	IPSD4-S08PO26-A2U		Stainless steel Edelstahl	2000 Hz
			30 cm, PUR, M8	IPSD4-S08PO26-3U8		Stainless steel Edelstahl	2000 Hz
		1.5	Cable 2 m, PUR	IPSD4-S1.5PO26-A2U		Stainless steel Edelstahl	2000 Hz
			30 cm, PUR, M8	IPSD4-S1.5PO26-3U8		Stainless steel Edelstahl	2000 Hz
M5x0.5	●	0.8	Cable 2 m, PUR	IPSS-S08PO26-A2U		Stainless steel Edelstahl	2000 Hz
			30 cm, PUR, M8	IPSS-S08PO26-3U8		Stainless steel Edelstahl	2000 Hz
			Connector M8		IPSS-S08PO40-A8	Stainless steel Edelstahl	2000 Hz
		1.5	Cable 2 m, PUR	IPSS-S1.5PO26-A2U		Stainless steel Edelstahl	2000 Hz
			30 cm, PUR, M8	IPSS-S1.5PO26-3U8		Stainless steel Edelstahl	2000 Hz
			Connector M8		IPSS-S1.5PO40-A8	Stainless steel Edelstahl	2000 Hz
Ø5x5	●	0.8	Cable 2 m, PUR	IPSS5-S08PO26-A2U		Nickel plated brass Messing vernickelt	2000 Hz
			30 cm, PUR, M8	IPSS5-S08PO26-3U8		Nickel plated brass Messing vernickelt	2000 Hz
		1.5	Cable 2 m, PUR	IPSS5-S1.5PO26-A2U		Nickel plated brass Messing vernickelt	2000 Hz
			30 cm, PUR, M8	IPSS5-S1.5PO26-3U8		Nickel plated brass Messing vernickelt	2000 Hz

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Bestellnummern gelten für PNP, NO (PO) Konfiguration. Alle Geräte auch erhältlich als PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) Konfiguration.



Proximity Switches, inductive Näherungsschalter, induktiv

- ▶ Miniature, Ø3 mm...Ø5×5 mm
Miniatur, Ø3 mm...Ø5×5 mm
- ▶ **High performance with up to 4× S_N**
Hochleistung mit bis zu 4× S_N
- ▶ Closed stainless steel housing with IP69k
Geschlossene Edelstahlgehäuse mit IP69k
- ▶ High temperature proof versions up to 180 °C | 356 °F
Hochtemperaturfeste Ausführungen bis 180 °C
- ▶ Low temperature –40 °C | –40 °F, food grade, IP69k
Tieftemperatur –40 °C, lebensmitteltauglich, IP69k
- ▶ Pressure proof versions up to 1000 bar | 14500 psi
Druckfeste Ausführungen bis 1000 bar
- ▶ Devices with analog output
Geräte mit Analogausgang
- ▶ 2-wire 10...55 V_{DC} | 20...250 V_{AC}
2-Leiter 10...55 V_{DC} | 20...250 V_{AC}



Technical data (typ.)

Supply voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<10 mA
Current load capability	200 mA
Short circuit protection	built-in, self-resetting
Voltage drop	<1.5 V @ 200 mA
Switching indicator	LED, yellow
Operating temperature	–20...+70 °C –4...+158 °F
IP code	IP67

Technische Daten (typ.)

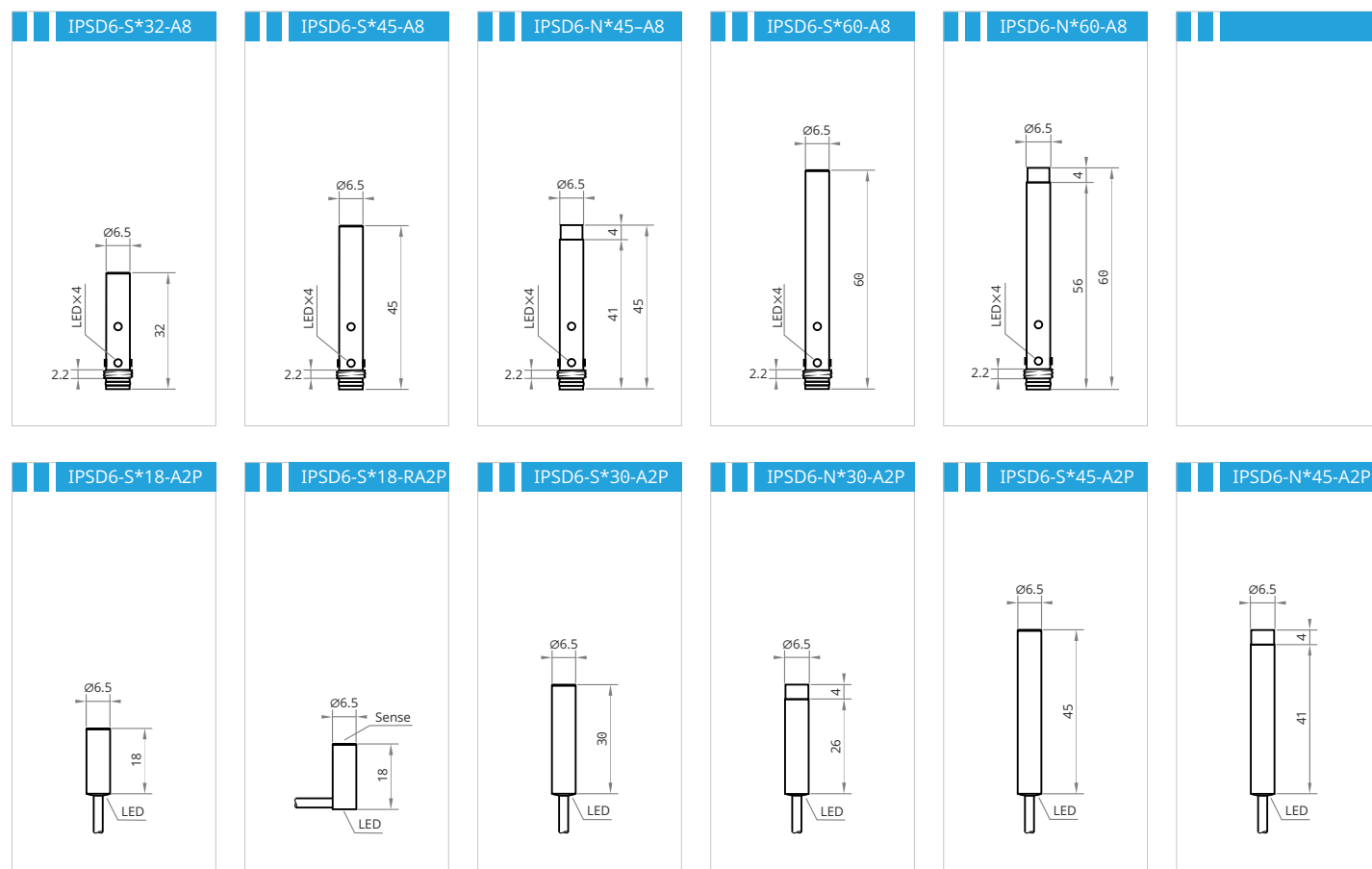
Versorgungsspannung	10...30 V _{DC}
Verpolungsschutz	integriert
Stromaufnahme	<10 mA
Ausgangsbelastbarkeit	200 mA
Kurzschlusschutz	integriert, selbstrückstellend
Spannungsabfall	<1,5 V @ 200 mA
Schaltanzeige	LED, gelb
Betriebstemperatur	–20...+70 °C
Schutzart	IP67



	Mounting Montage	S _n [mm]	Connection Anschluss	Housing length · Gehäuselänge [mm]					Switching frequency Schaltfrequenz
				18	30	32	45	60	
Standard	●	1	Cable 2 m, PVC		IPSD6-S1PO30-A2P		IPSD6-S1PO45-A2P		2000 Hz
			Connector M8				IPSD6-S1PO45-A8	IPSD6-S1PO60-A8	
	○	2	Cable 2 m, PVC		IPSD6-N2PO30-A2P		IPSD6-N2PO45-A2P		
			Connector M8				IPSD6-N2PO45-A8	IPSD6-N2PO60-A8	
Increased · Erhöht	●	2	Cable 2 m, PVC	IPSD6-S2PO18-A2P	IPSD6-S2PO30-A2P		IPSD6-S2PO45-A2P		2000 Hz
			Cable 2 m, radial	IPSD6-S2PO18-RA2P					
			30 cm, PUR, M8	IPSD6-S2PO18-3U8	IPSD6-S2PO30-3U8				
			30cm, M8, radial	IPSD6-S2PO18-R3U8					
			Connector M8			IPSD6-S2PO32-A8	IPSD6-S2PO45-A8	IPSD6-S2PO60-A8	
	○	4	Cable 2 m, PVC		IPSD6-N4PO30-A2P		IPSD6-N4PO45-A2P		1000 Hz
			Connector M8				IPSD6-N4PO45-A8	IPSD6-N4PO60-A8	
Extended · Erweitert	●	3	Cable 2 m, PVC	IPSD6-S3PO18-A2P	IPSD6-S3PO30-A2P		IPSD6-S3PO45-A2P		1000 Hz
			Cable 2 m, radial	IPSD6-S3PO18-RA2P					
			30 cm, PUR, M8	IPSD6-S3PO18-3U8	IPSD6-S3PO30-3U8				
			30 cm, M8, radial	IPSD6-S3PO18-R3U8					
			Connector M8			IPSD6-S3PO32-A8	IPSD6-S3PO45-A8	IPSD6-S3PO60-A8	
	○	6	Cable 2 m, PVC		IPSD6-N64PO30-A2P		IPSD6-N6PO45-A2P		500 Hz
			Connector M8				IPSD6-N6PO45-A8	IPSD6-N6PO60-A8	

Selection from our range of products.
Auszug aus unserem Lieferprogramm.

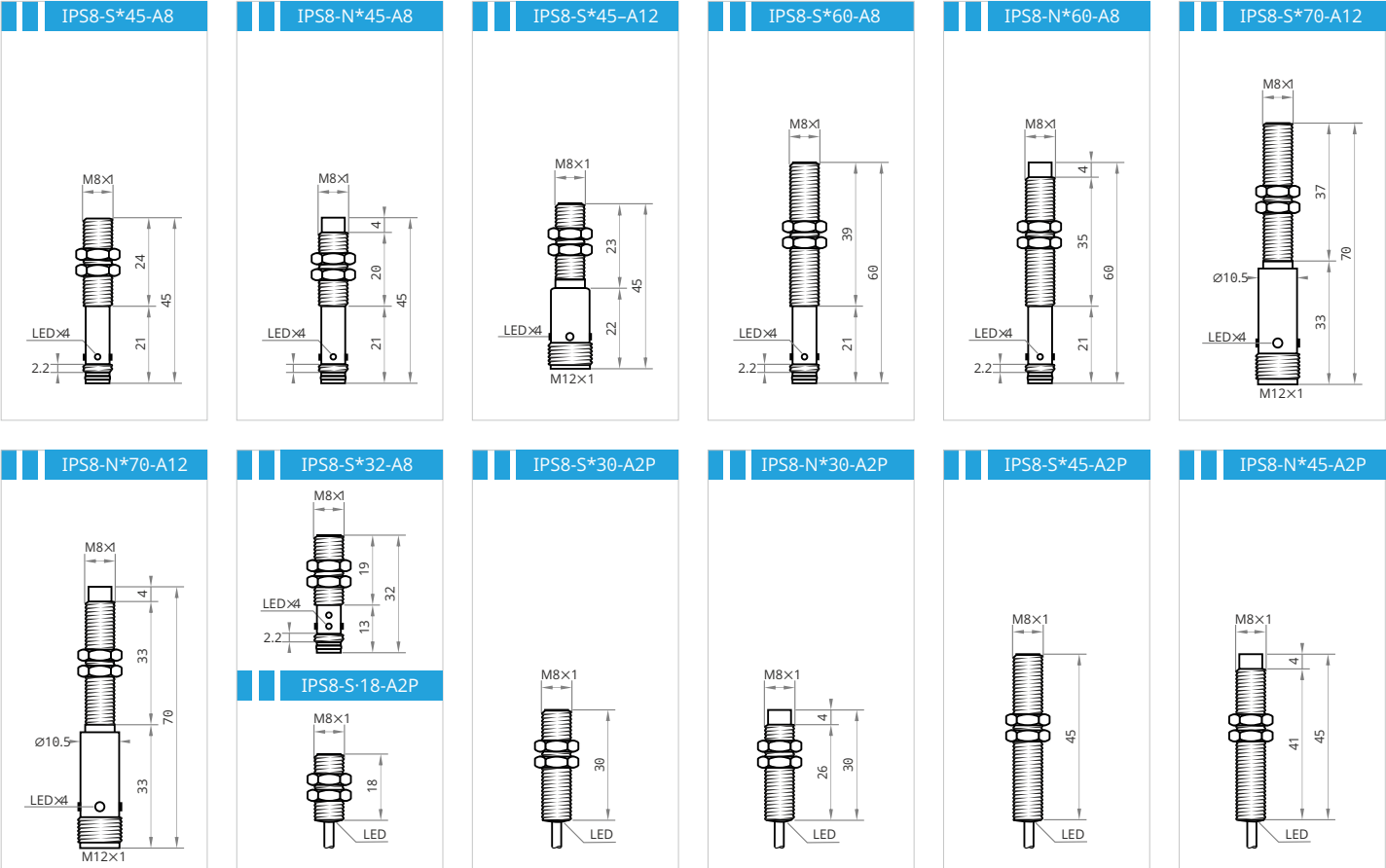
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	Mounting Montage	S _n [mm]	Connection Anschluss	Housing length · Gehäuselänge [mm]						
				18	30	32	45	60	70	
Standard	●	1	Cable 2 m, PVC	IPS8-S1PO18-A2P	IPS8-S1PO30-A2P		IPS8-S1PO45-A2P			2000 Hz
			Connector M8			IPS8-S1PO32-A8	IPS8-S1PO45-A8	IPS8-S1PO60-A8		
	○	2	Cable 2 m, PVC		IPS8-N2PO30-A2P		IPS8-N2PO45-A2P	IPS8-N2PO60-A8		2000 Hz
			Connector M8				IPS8-N2PO45-A8			
Increased · Erhöht	●	2	Cable 2 m, PVC	IPS8-S2PO18-A2P	IPS8-S2PO30-A2P		IPS8-S2PO45-A2P			2000 Hz
			30 cm, PUR, M8	IPS8-S2PO18-3U8						
			Connector M8			IPS8-S2PO32-A8	IPS8-S2PO45-A8	IPS8-S2PO60-A8		
			Connector M12				IPS8-S2PO45-A12		IPS8-S2PO70-A12	
	○	4	Cable 2 m, PVC		IPS8-N4PO30-A2P		IPS8-N4PO45-A2P			1000 Hz
			Connector M8				IPS8-N4PO45-A8	IPS8-N4PO60-A8	IPS8-N4PO70-A12	
Extended · Erweitert	●	3	Cable 2 m, PVC	IPS8-S3PO18-A2P	IPS8-S3PO30-A2P		IPS8-S3PO45-A2P			1000 Hz
			30 cm, PUR, M8	IPS8-S3PO18-3U8						
			Connector M8			IPS8-S3PO32-A8	IPS8-S3PO45-A8	IPS8-S3PO60-A8		
			Connector M12				IPS8-S3PO45-A12		IPS8-S3PO70-A12	
	○	6	Cable 2 m, PVC		IPS8-N6PO30-A2P		IPS8-N6PO45-A2P			500 Hz
			Connector M8				IPS8-N6PO45-A8	IPS8-N6PO60-A8	IPS8-N6PO70-A12	
Performance	●	4	Cable 2 m, PVC	IPS8-S4PO18-A2P	IPS8-S4PO30-A2P		IPS8-S4PO45-A2P			500 Hz
			30 cm, PUR, M8	IPS8-S4PO18-3U8						
			Connector M8			IPS8-S4PO32-A8	IPS8-S4PO45-A8	IPS8-S4PO60-A8		
			Connector M12				IPS8-S4PO45-A12		IPS8-S4PO70-A12	

Selection from our range of products.
Auszug aus unserem Lieferprogramm.

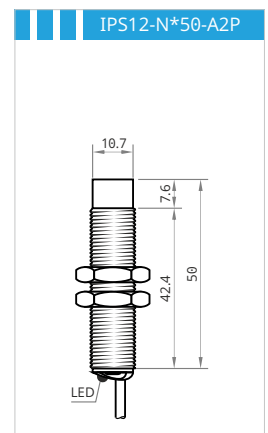
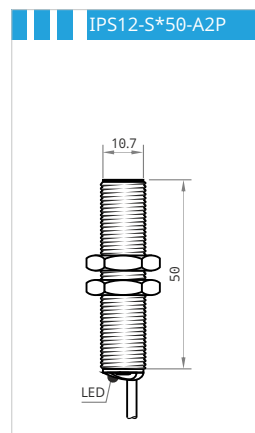
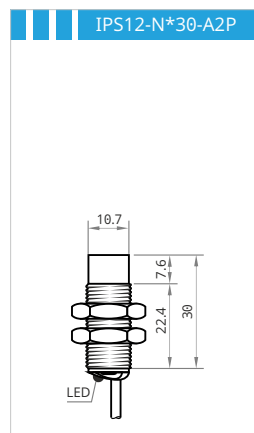
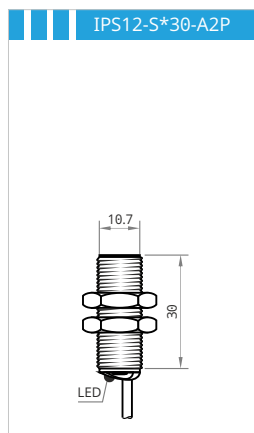
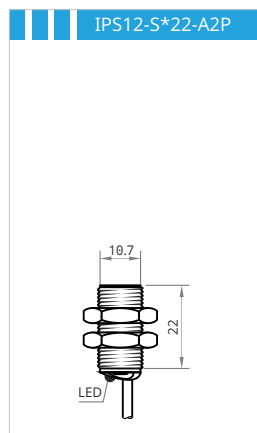
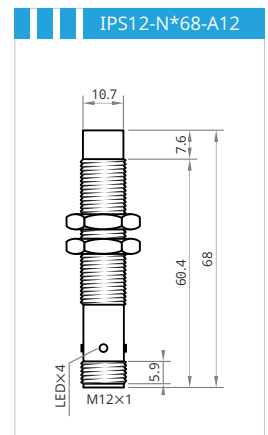
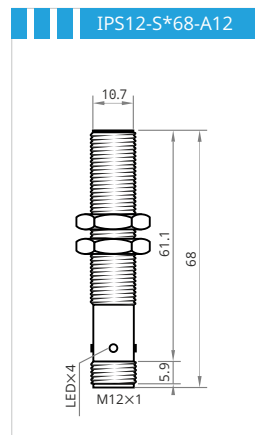
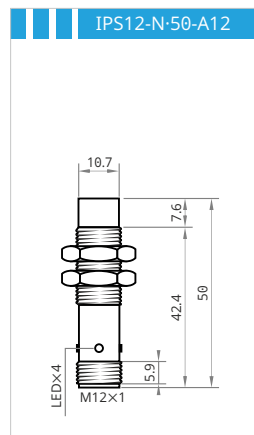
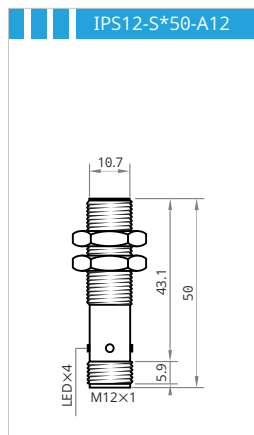
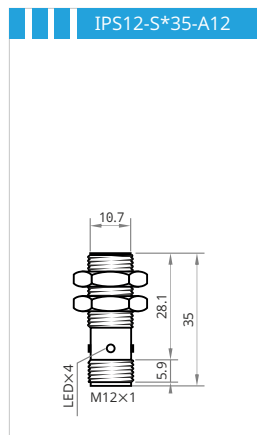
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	Mounting Montage	S _n [mm]	Connection Anschluss	Housing length · Gehäuselänge [mm]					Switching frequency Schaltfrequenz
				22	30	35	50	68	
Standard	●	2	Cable 2 m, PVC		IPS12-S2PO30-A2P		IPS12-S2PO50-A2P		2000 Hz
			Connector M12				IPS12-S2PO50-A12	IPS12-S2PO68-A12	
	○	4	Cable 2 m, PVC		IPS12-N4PO30-A2P		IPS12-N4PO50-A2P		1000 Hz
			Connector M12				IPS12-N4PO50-A12	IPS12-N4PO68-A12	
Increased · Erhöht	●	4	Cable 2 m, PVC	IPS12-S4PO22-A2P	IPS12-S4PO30-A2P		IPS12-S4PO50-A2P		1000 Hz
			30 cm, PUR, M12	IPS12-S4PO22-3U12					
			Connector M12			IPS12-S4PO35-A12	IPS12-S4PO50-A12	IPS12-S4PO68-A12	
	○	8	Cable 2 m, PVC		IPS12-N8PO30-A2P		IPS12-N8PO50-A2P		500 Hz
			Connector M12				IPS12-N8PO50-A12	IPS12-N8PO68-A12	
Extended · Erweitert	●	6	Cable 2 m, PVC	IPS12-S6PO22-A2P	IPS12-S6PO30-A2P		IPS12-S6PO50-A2P		800 Hz
			30 cm, PUR, M12	IPS12-S6PO22-3U12					
			Connector M12			IPS12-S6PO35-A12	IPS12-S6PO50-A12	IPS12-S6PO68-A12	
	○	10	Cable 2 m, PVC		IPS12-N10PO30-A2P		IPS12-N10PO50-A2P		400 Hz
			Connector M12				IPS12-N10PO50-A12	IPS12-N10PO68-A12	
Performance	●	8	Cable 2 m, PVC	IPS12-S8PO22-A2P	IPS12-S8PO30-A2P		IPS12-S8PO50-A2P		500 Hz
			30 cm, PUR, M12	IPS12-S8PO22-3U12					
			Connector M12			IPS12-S8PO35-A12	IPS12-S8PO50-A12	IPS12-S8PO68-A12	

Selection from our range of products.
Auszug aus unserem Lieferprogramm.

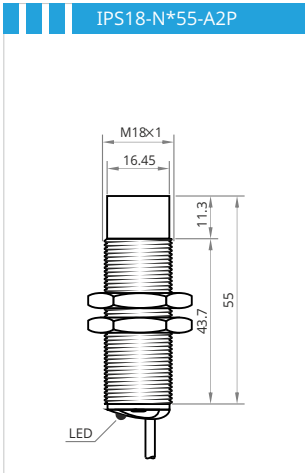
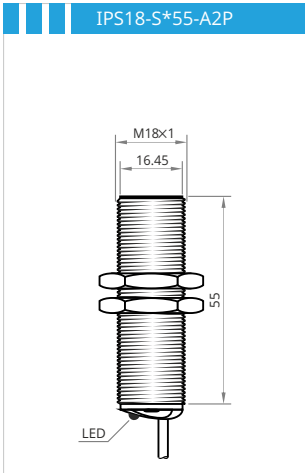
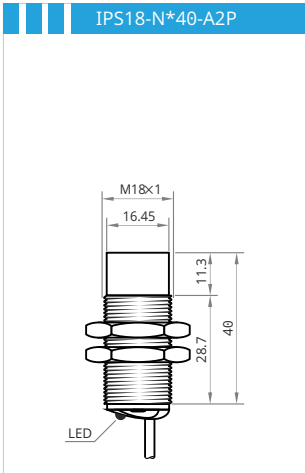
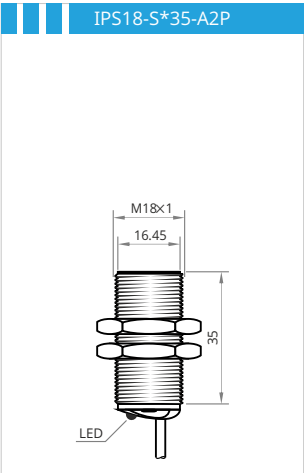
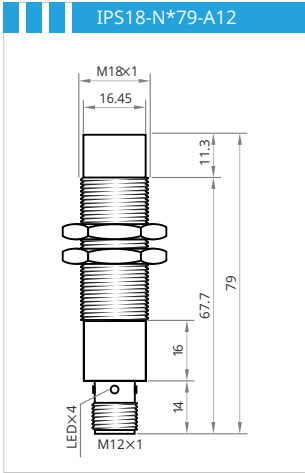
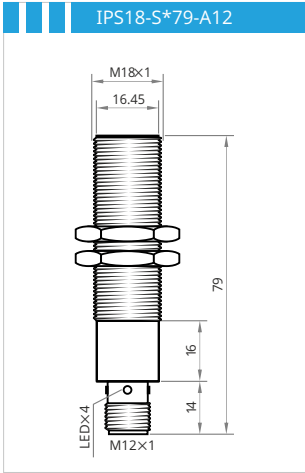
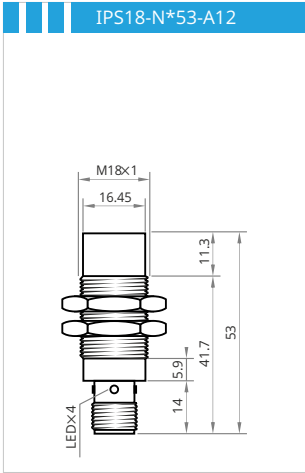
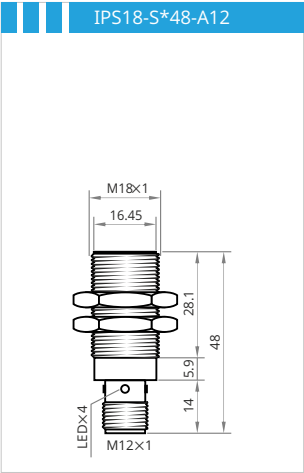
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	Mounting Montage	S _n [mm]	Connection Anschluss	Housing length · Gehäuselänge [mm]						
				35	40	48	53	55	79	
Standard	●	5	Cable 2 m, PVC	IPS18-S5PO35-A2P				IPS18-S5PO55-A2P		1000 Hz
			Connector M12			IPS18-S5PO48-A12			IPS18-S5PO79-A12	
	○	8	Cable 2 m, PVC		IPS18-N8PO40-A2P			IPS18-N8PO55-A2P		500 Hz
			Connector M12				IPS18-N8PO53-A12		IPS18-N8PO79-A12	
Increased · Erhöht	●	8	Cable 2 m, PVC	IPS18-S8PO35-A2P				IPS18-S8PO55-A2P		500 Hz
			Connector M12			IPS18-S8PO48-A12			IPS18-S8PO79-A12	
	○	16	Cable 2 m, PVC		IPS18-N16PO40-A2P			IPS18-N16PO55-A2P		150 Hz
			Connector M12				IPS18-N16PO53-A12		IPS18-N16PO79-A12	
Extended · Erweitert	●	12	Cable 2 m, PVC	IPS18-S12PO35-A2P				IPS18-S12PO55-A2P		300 Hz
			Connector M12			IPS18-S12PO48-A12			IPS18-S12PO79-A12	
	○	20	Cable 2 m, PVC		IPS18-N20PO40-A2P			IPS18-N20PO55-A2P		100 Hz
			Connector M12				IPS18-N20PO53-A12		IPS18-N20PO79-A12	

Selection from our range of products.
Auszug aus unserem Lieferprogramm.

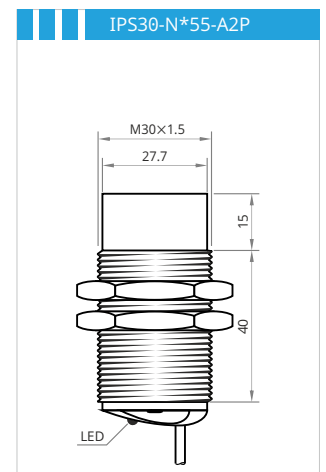
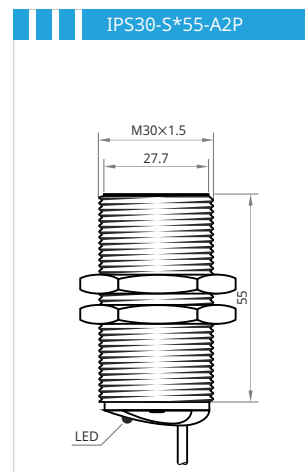
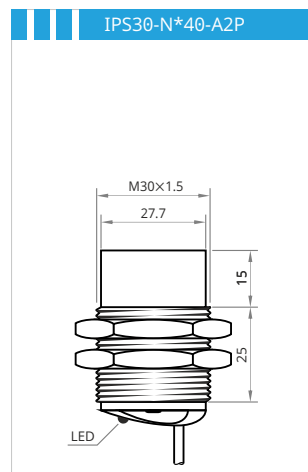
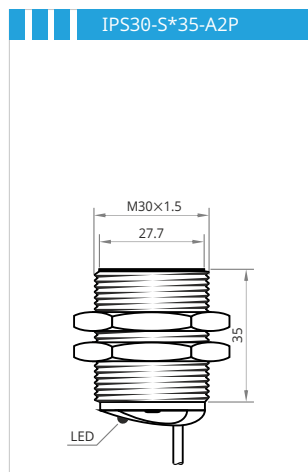
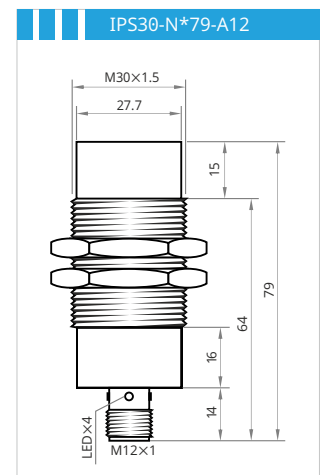
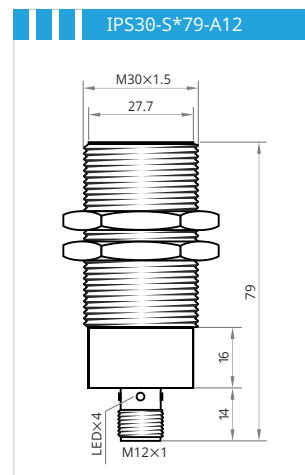
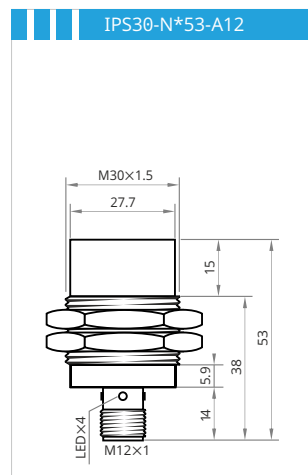
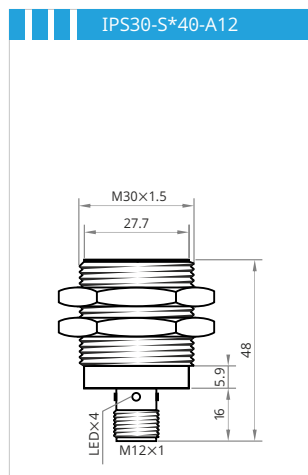
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	Mounting Montage	S _n [mm]	Connection Anschluss	Housing length · Gehäuselänge [mm]						
				35	40	48	53	55	79	
Standard	●	10	Cable 2 m, PVC	IPS30-S10PO35-A2P				IPS30-S10PO55-A2P		1000 Hz
			Connector M12			IPS30-S10PO48-A12			IPS30-S10PO79-A12	
	○	15	Cable 2 m, PVC		IPS30-N15PO40-A2P			IPS30-N15PO55-A2P		500 Hz
			Connector M12				IPS30-N15PO53-A12		IPS30-N15PO79-A12	
Increased · Erhöht	●	16	Cable 2 m, PVC	IPS30-S16PO35-A2P				IPS30-S16PO55-A2P		500 Hz
			Connector M12			IPS30-S16PO48-A12			IPS30-S16PO79-A12	
	○	25	Cable 2 m, PVC		IPS30-N25PO40-A2P			IPS30-N25PO55-A2P		150 Hz
			Connector M12				IPS30-N25PO53-A12		IPS30-N25PO79-A12	
Extended · Erweitert	●	22	Cable 2 m, PVC	IPS30-S22PO35-A2P				IPS30-S22PO55-A2P		300 Hz
			Connector M12			IPS30-S22PO48-A12			IPS30-S22PO79-A12	
	○	40	Cable 2 m, PVC		IPS30-N40PO40-A2P			IPS30-N40PO55-A2P		100 Hz
			Connector M12				IPS30-N40PO53-A12		IPS30-N40PO79-A12	
Performance	○	50	Cable 2 m, PVC		IPS30-N50PO40-A2P			IPS30-N50PO55-A2P		100 Hz
			Connector M12				IPS30-N50PO53-A12		IPS30-N50PO79-A12	

Selection from our range of products.
 Auszug aus unserem Lieferprogramm.

Order codes are valid for PNP, NO (PO) configuration. All devices also available in PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) configuration.
 Bestellnummern gelten für PNP, NO (PO) Konfiguration. Alle Geräte auch erhältlich als PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) Konfiguration.



Cuboid and special shapes
Quaderförmige und besondere Bauformen

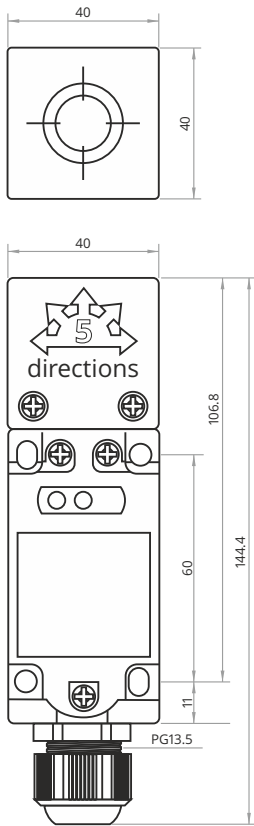
	Mounting Montage	S _n [mm]	Connection Anschluss	Supply voltage · Versorgungsspannung					
				10...30 V _{DC} , 3-wire		10...55 V _{DC} , 2-wire		20...255 V _{AC} , 2-wire	
40×40	●	15	PG13	IPS40-S15PCOL-PG13	120 Hz	IPS40-S15DOL-PG13	120 Hz	IPS40-S15AOL-PG13	
	●	20	PG13	IPS40-S20PCOL-PG13		IPS40-S20DOL-PG13		IPS40-S20AOL-PG13	25 Hz
	○	30	PG13	IPS40-N30PCOL-PG13		IPS40-N30DOL-PG13		IPS40-N30AOL-PG13	
	●	25	PG13	IPS40-S25PCOL-PG13					
	○	40	PG13	IPS40-N40PCOL-PG13					
		50	PG13	IPS40-N50PCOL-PG13					
8×8	●	2	Connector M8	IPS88-S2PO60-A8	1000 Hz				
		2	Cable 2 m, PVC	IPS88-S2PO40-A2P					
	●	3	Connector M8	IPS88-S3PO60-A8					
		3	Cable 2 m, PVC	IPS88-S3PO40-A2P					
16×28	●	1	Connector M8	IPS1628-S1POS-A8	2000 Hz				
		1	Cable 2 m, PVC	IPS1628-S1POS-A2P					
	○	2	Connector M8	IPS1628-N2POS-A8					
		2	Cable 2 m, PVC	IPS1628-N2POS-A2P					
	●	2	Connector M8	IPS1628-S2POS-A8	1000 Hz				
		2	Cable 2 m, PVC	IPS1628-S2POS-A2P					
	○	4	Connector M8	IPS1628-N4POS-A8					
		4	Cable 2 m, PVC	IPS1628-N4POS-A2P					
	●	3	Connector M8	IPS1628-S3POS-A8	500 Hz				
		3	Cable 2 m, PVC	IPS1628-S3POS-A2P					
	○	6	Connector M8	IPS1628-N6POS-A8					
		6	Cable 2 m, PVC	IPS1628-N6POS-A2P					
Ø18	●	5	Single Strands 2 m	IPSD18-S5PO-001	800 Hz				
		5	Single Strands 2 m	IPSD18-S5PC-001					
Ø5×5	●	0.8	Cable 2 m, PUR	IPS55-S08PO26-A2U	2000 Hz				
			30 cm, PUR, M8	IPS55-S08PO26-3U8					
		1.5	Cable 2 m, PUR	IPS55-S1.5PO26-A2U	2000 Hz				
			30 cm, PUR, M8	IPS55-S1.5PO26-3U8					

Selection from our range of products. Order codes are valid for PNP, NO (PO) configuration. Many devices also available in PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) configuration.
Auszug aus unserem Lieferprogramm. Bestellnummern gelten für PNP, NO (PO) Konfiguration. Viele Geräte auch erhältlich als PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) Konfiguration.

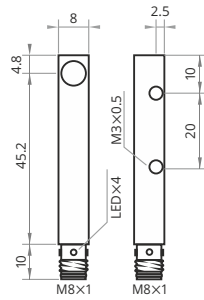
Technical data (typ.)		Technische Daten (typ.)	
Supply voltage	10...30 V _{DC}	Versorgungsspannung	10...30 V _{DC}
Reverse polarity protection	built-in	Verpolungsschutz	integriert
Current consumption	<10 mA	Eigenstromaufnahme	<10 mA
Current load capability	200 mA	Ausgangsbelaastbarkeit	200 mA
Short circuit protection	built-in, self-resetting	Kurzschlusschutz	integriert, selbstrückstellend
Voltage drop	<1.2 V @ 200 mA	Spannungsabfall	<1,2 V @ 200 mA
Switching indicator	LED, yellow	Schaltanzeige	LED, gelb
Operating temperature	−20...+70 °C −4...+158 °F	Betriebstemperatur	−20...+70 °C
IP code	IP67	Schutzart	IP67



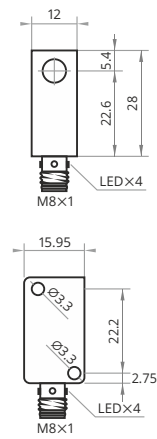
IPS40



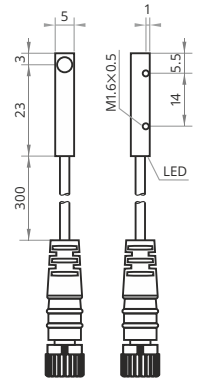
IPS88-S*60-A8



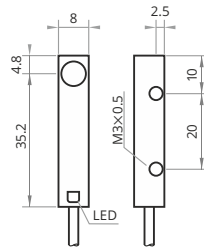
IPS1628-*S-A8



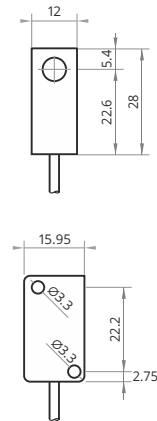
IPS55-S*26-3U8



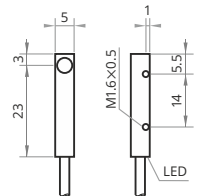
IPS88-S*40-A2P



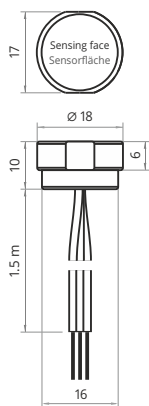
IPS1628-*S-A2P



IPS55-S*26-A2U



IPSD18



Proximity Switches, inductive

Näherungsschalter, induktiv

- ▶ Miniature, Ø3 mm...Ø5×5 mm
Miniatur, Ø3 mm...Ø5×5 mm
- ▶ High performance with up to $4 \times S_n$
Hochleistung mit bis zu $4 \times S_n$
- ▶ **Closed stainless steel housing with IP69k**
Geschlossene Edelstahlgehäuse mit IP69k
- ▶ High temperature proof versions up to 180 °C | 356 °F
Hochtemperaturfeste Ausführungen bis 180 °C
- ▶ Low temperature –40 °C | –40 °F, food grade, IP69k
Tieftemperatur –40 °C, lebensmitteltauglich, IP69k
- ▶ Pressure proof versions up to 1000 bar | 14500 psi
Druckfeste Ausführungen bis 1000 bar
- ▶ Devices with analog output
Geräte mit Analogausgang
- ▶ 2-wire 10...55 V_{DC} | 20...250 V_{AC}
2-Leiter 10...55 V_{DC} | 20...250 V_{AC}



Technical data (typ.)

Supply voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<10 mA
Short circuit protection	built-in, self-resetting
Voltage drop	<1.5 V @ 200 mA
Switching indicator	LED, yellow
Operating temperature	–20...+70 °C –4...+158 °F
IP code	IP69k, IP67 rear end

Technische Daten (typ.)

Versorgungsspannung	10...30 V _{DC}
Verpolungsschutz	integriert
Stromaufnahme	<10 mA
Kurzschlusschutz	integriert, selbstrückstellend
Spannungsabfall	<1,5 V @ 200 mA
Schaltanzeige	LED, gelb
Betriebstemperatur	–20...+70 °C
Schutzart	IP69k, IP67 Rückseite



	Mounting Montage	S _n [mm]	Connection Anschluss	Housing length · Gehäuselänge [mm]					
				30	45	50	60	68	70
M8X1	●	2	Cable 2 m, PVC	IMF8-S2PO30-A2P	IMF8-S2PO45-A2P				
			Connector M8		IMF8-S2PO45-A8		IMF8-S2PO60-A8		
			Connector M12						IMF8-S2PO70-A12
	○	3.5	Cable 2 m, PVC	IMF8-N4PO30-A2P	IMF8-N4PO45-A2P				
			Connector M8		IMF8-N4PO45-A8		IMF8-N4PO60-A8		
			Connector M12						IMF8-N4PO70-A12
M12X1	●	4	Cable 2 m, PVC	IMF12-S4PO30-A2P		IMF12-S4PO50-A2P			
			Connector M12			IMF12-S4PO50-A12		IMF12-S4PO68-A12	
	○	6	Cable 2 m, PVC	IMF12-N6PO30-A2P		IMF12-N6PO50-A2P			
			Connector M12			IMF12-N6PO50-A12		IMF12-N6PO68-A12	
				35	48	53	55	79	
M18X1	●	8	Cable 2 m, PVC	IMF18-S8PO35-A2P			IMF18-S8PO55-A2P		
			Connector M12		IMF18-S8PO48-A12			IMF18-S8PO79-A12	
	○					not available · nicht erhältlich			
M30X1.5	●	10	Cable 2 m, PVC	IMF30-S10PO35-A2P			IMF30-S10PO55-A2P		
			Connector M12		IMF30-S10PO48-A12			IMF30-S10PO79-A12	
	○	15	Cable 2 m, PVC	IMF30-N15PO35-A2P			IMF30-N15PO55-A2P		
			Connector M12			IMF30-N15PO53-A12		IMF30-N15PO79-A12	

Order codes are valid for PNP, NO (PO) configuration. All devices also available in PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) configuration.
Bestellnummern gelten für PNP, NO (PO) Konfiguration. Alle Geräte auch erhältlich als PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) Konfiguration.

Inductive Metal Face

The dimensions of the IMF series correspond to those of the IPS series on the pages 28–31.

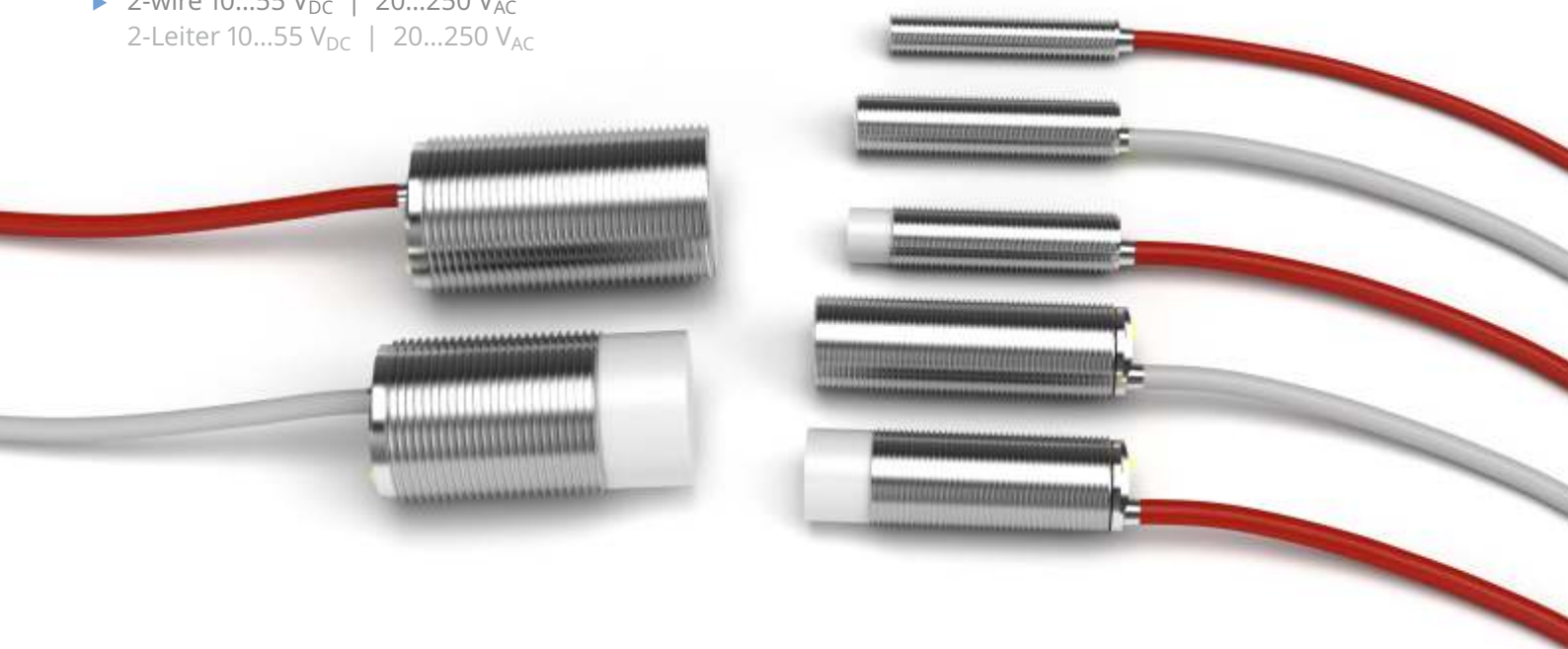
Induktiv Vollmetall

Die Abmessungen der IMF-Serie entsprechen denen der IPS-Serie auf den Seiten 28–31.

Proximity Switches, inductive

Näherungsschalter, induktiv

- ▶ Miniature, Ø3 mm...Ø5×5 mm
Miniatur, Ø3 mm...Ø5×5 mm
- ▶ High performance with up to $4 \times S_n$
Hochleistung mit bis zu $4 \times S_n$
- ▶ Closed stainless steel housing with IP69k
Geschlossene Edelstahlgehäuse mit IP69k
- ▶ **High temperature proof versions up to 180 °C | 356 °F**
Hochtemperaturfeste Ausführungen bis 180 °C
- ▶ Low temperature –40 °C | –40 °F, food grade, IP69k
Tieftemperatur –40 °C, lebensmitteltauglich, IP69k
- ▶ Pressure proof versions up to 1000 bar | 14500 psi
Druckfeste Ausführungen bis 1000 bar
- ▶ Devices with analog output
Geräte mit Analogausgang
- ▶ 2-wire 10...55 V_{DC} | 20...250 V_{AC}
2-Leiter 10...55 V_{DC} | 20...250 V_{AC}



Technical data (typ.)

Supply voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<10 mA
Short circuit protection	built-in, self-resetting
Voltage drop	<1.5 V @ 200 mA
Switching indicator	on request
Operating temperature	–20... °C –4... °F
IP code	IP67

Remark:

To simplify mechanical setup, all high temperature proximity switches up to 150 °C can optionally be equipped with a LED to indicate the status of the switching output. High temperature can damage permanently this LED. However, the failure of the LED does not affect the function of the device. A failure of the LED is no warranty case.

Technische Daten (typ.)

Versorgungsspannung	10...30 V _{DC}
Verpolungsschutz	integriert
Stromaufnahme	<10 mA
Kurzschlusschutz	integriert, selbstrückstellend
Spannungsabfall	<1,5 V @ 200 mA
Schaltanzeige	auf Anfrage
Betriebstemperatur	–20... °C
Schutzart	IP67

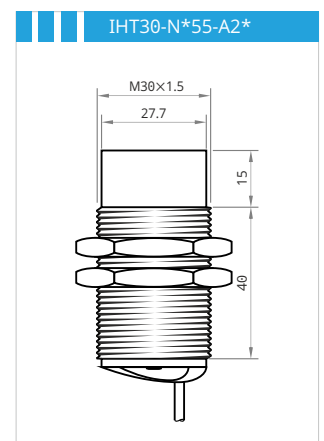
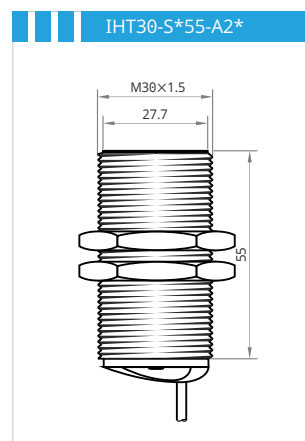
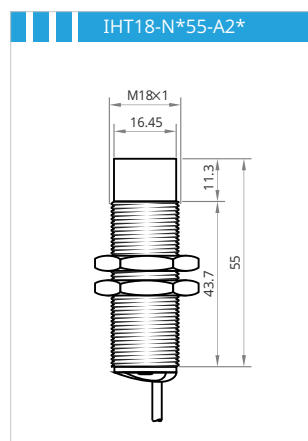
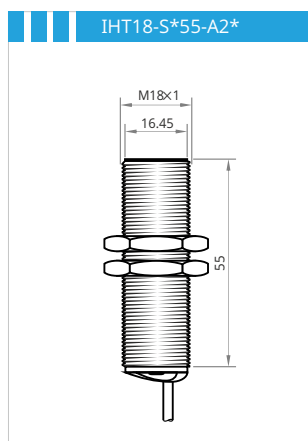
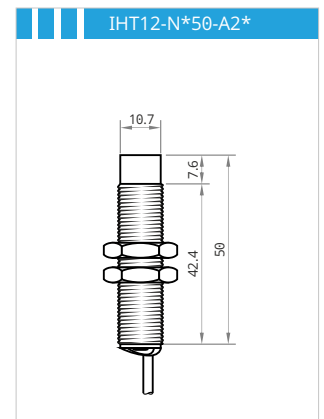
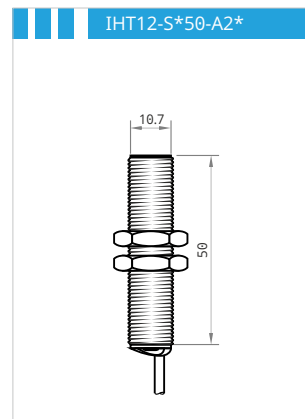
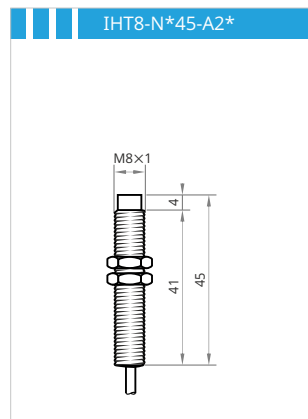
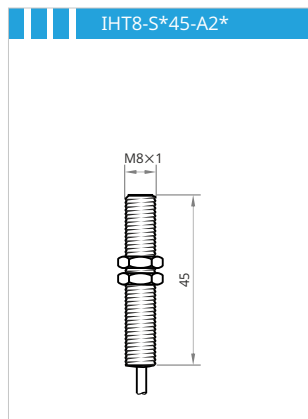


Anmerkung:

Zur Erleichterung der mechanischen Einrichtung können wahlweise alle Hochtemperatur-Näherungsschalter bis 150 °C mit einer LED zur Anzeige des Schaltzustands ausgerüstet werden. Hohe Temperaturen können diese LED dauerhaft beschädigen. Der Ausfall der LED hat jedoch keinen Einfluss auf die Funktion des Gerätes. Ein Ausfall der LED ist kein Garantiefall.

	Mounting Montage	S _n [mm]	Connection Anschluss	Temperature · Temperatur [permanent]			Current load capability Ausgangsbelastbarkeit
				120 °C 250 °F	150 °C 300 °F	180 °C 355 °F	
M8×1	●	2	Cable 2 m, silicone	IHT8-S2APO45-N2S			<120 mA
			Cable 2 m, PTFE	IHT8-S2APO45-N2T			<120 mA
	○	4	Cable 2 m, silicone	IHT8-N4APO45-N2S			<120 mA
			Cable 2 m, PTFE	IHT8-N4APO45-N2T			<120 mA
M12×1	●	2	Cable 2 m, silicone	IHT12-S2APO50-N2S	IHT12-S2BPO50-N2S		<120 mA
			Cable 2 m, PTFE	IHT12-S2APO50-N2T	IHT12-S2BPO50-N2T		<120 mA
	○	4	Cable 2 m, silicone	IHT12-N4APO50-N2S	IHT12-N4BPO50-N2S		<120 mA
			Cable 2 m, PTFE	IHT12-N4APO50-N2T	IHT12-N4BPO50-N2T		<120 mA
	●	4	Cable 2 m, silicone	IHT12-S4APO50-N2S	IHT12-S4BPO50-N2S		<120 mA
			Cable 2 m, PTFE	IHT12-S4APO50-N2T	IHT12-S4BPO50-N2T		<120 mA
	○	8	Cable 2 m, silicone	IHT12-N8APO50-N2S	IHT12-N8BPO50-N2S		<120 mA
			Cable 2 m, PTFE	IHT12-N8APO50-N2T	IHT12-N8BPO50-N2T		<120 mA
M18×1	●	5	Cable 2 m, silicone	IHT18-S5APO55-N2S	IHT18-S5BPO55-N2S	IHT18-S5CPO55-N2S	<150 mA
			Cable 2 m, PTFE	IHT18-S5APO55-N2T	IHT18-S5BPO55-N2T	IHT18-S5CPO55-N2T	<150 mA
	○	8	Cable 2 m, silicone	IHT18-N8APO55-N2S	IHT18-N8BPO55-N2S	IHT18-N8CPO55-N2S	<150 mA
			Cable 2 m, PTFE	IHT18-N8APO55-N2T	IHT18-N8BPO55-N2T	IHT18-N8CPO55-N2T	<150 mA
M30×1.5	●	10	Cable 2 m, silicone	IHT30-S10APO55-N2S	IHT30-S10BPO55-N2S	IHT30-S10CPO55-N2S	<150 mA
			Cable 2 m, PTFE	IHT30-S10APO55-N2T	IHT30-S10BPO55-N2T	IHT30-S10CPO55-N2T	<150 mA
	○	15	Cable 2 m, silicone	IHT30-N15APO55-N2S	IHT30-N15BPO55-N2S	IHT30-N15CPO55-N2S	<150 mA
			Cable 2 m, PTFE	IHT30-N15APO55-N2T	IHT30-N15BPO55-N2T	IHT30-N15CPO55-N2T	<150 mA

Order codes are for PNP, NO (PO) configuration. All devices also available in PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) configuration.
Bestellnummern für PNP, NO (PO) Konfiguration. Alle Geräte auch erhältlich als PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) Konfiguration.



Proximity Switches, inductive

Näherungsschalter, induktiv

- ▶ Miniature, Ø3 mm...Ø5×5 mm
Miniatur, Ø3 mm...Ø5×5 mm
- ▶ High performance with up to $4 \times S_n$
Hochleistung mit bis zu $4 \times S_n$
- ▶ Closed stainless steel housing with IP69k
Geschlossene Edelstahlgehäuse mit IP69k
- ▶ High temperature proof versions up to 180 °C | 356 °F
Hochtemperaturfeste Ausführungen bis 180 °C
- ▶ **Low temperature –40 °C | –40 °F, food grade, IP69k**
Tieftemperatur –40 °C, lebensmitteltauglich, IP69k
- ▶ Pressure proof versions up to 1000 bar | 14500 psi
Druckfeste Ausführungen bis 1000 bar
- ▶ Devices with analog output
Geräte mit Analogausgang
- ▶ 2-wire 10...55 V_{DC} | 20...250 V_{AC}
2-Leiter 10...55 V_{DC} | 20...250 V_{AC}



Technical data (typ.)

Supply voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<10 mA
Short circuit protection	built-in, self-resetting
Voltage drop	<1.5 V @ 200 mA
Switching indicator	LED, yellow
Housing material	PBT
Operating temperature	–40...+70 °C –40...+158 °F
IP code	IP69k, IP67 rear end

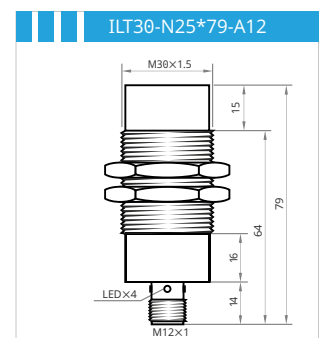
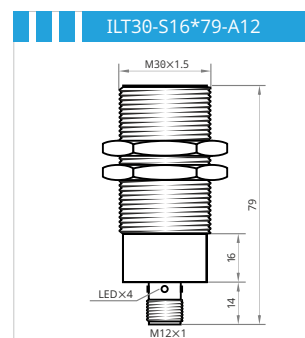
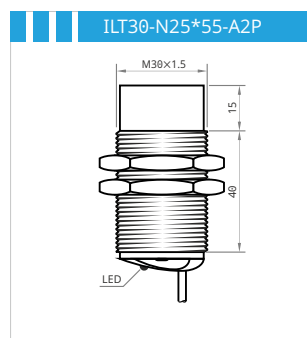
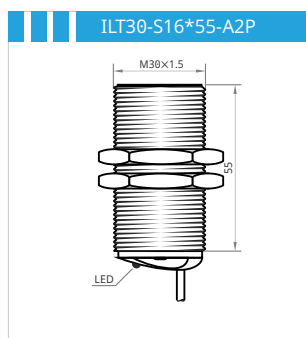
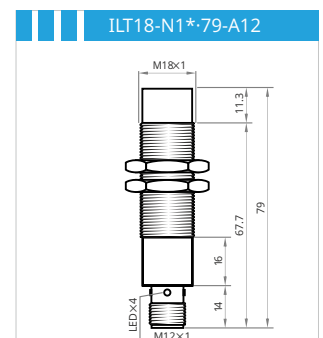
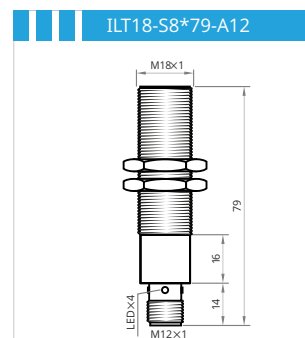
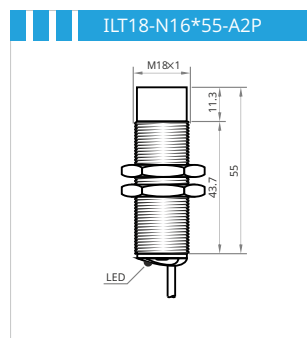
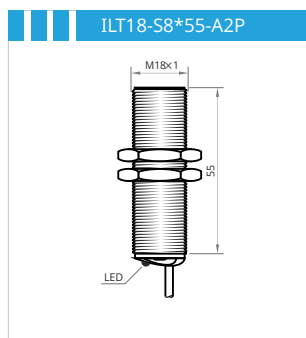
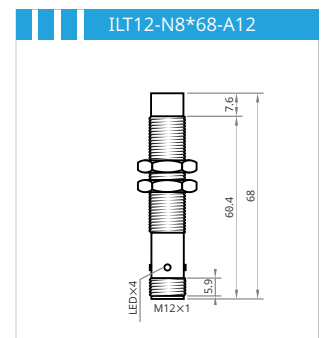
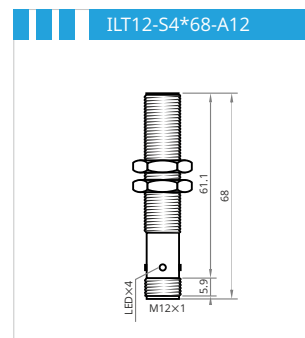
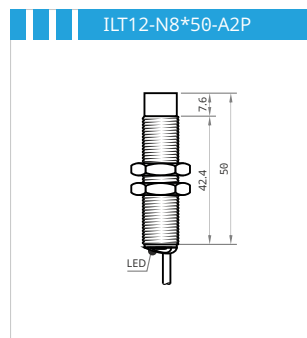
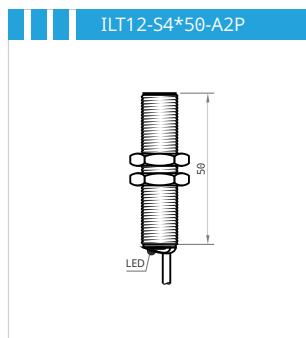
Technische Daten (typ.)

Versorgungsspannung	10...30 V _{DC}
Verpolungsschutz	integriert
Stromaufnahme	<10 mA
Kurzschlusschutz	integriert, selbstrückstellend
Spannungsabfall	<1,5 V @ 200 mA
Schaltanzeige	LED, gelb
Gehäusematerial	PBT
Betriebstemperatur	–40...+70 °C
Schutzart	IP69k, IP67 Rückseite



	Mounting Montage	S _n [mm]	Connection Anschluss	Output Ausgang	Housing length · Gehäuselänge [mm]				
					50	55	68	79	
M12x1	●	4	Cable 2 m, PVC		ILT12-S4PO50-A2P				1000 Hz
			Connector M12				ILT12-S4PO68-A12		
	○	8	Cable 2 m, PVC		ILT12-N8PO50-A2P				500 Hz
			Connector M12				ILT12-N8PO68-A12		
M18x1	●	8	Cable 2 m, PVC			ILT18-S8PO55-A2P			500 Hz
			Connector M12					ILT18-S8PO79-A12	
	○	16	Cable 2 m, PVC			ILT18-N16PO55-A2P			150 Hz
			Connector M12					ILT18-N25PO79-A12	
M30x1.5	●	16	Cable 2 m, PVC			ILT30-S16PO55-A2P			500 Hz
			Connector M12					ILT30-S16PO79-A12	
	○	25	Cable 2 m, PVC			ILT30-N25PO55-A2P			150 Hz
			Connector M12					ILT30-N16PO79-A12	

Order codes are for PNP, NO (PO) configuration. All devices also available in PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) configuration.
Bestellnummern für PNP, NO (PO) Konfiguration. Alle Geräte auch erhältlich als PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) Konfiguration.



Proximity Switches, inductive

Näherungsschalter, induktiv

- ▶ Miniature, Ø3 mm...Ø5×5 mm
Miniatur, Ø3 mm...Ø5×5 mm
- ▶ High performance with up to $4 \times S_n$
Hochleistung mit bis zu $4 \times S_n$
- ▶ Closed stainless steel housing with IP69k
Geschlossene Edelstahlgehäuse mit IP69k
- ▶ High temperature proof versions up to 180 °C | 356 °F
Hochtemperaturfeste Ausführungen bis 180 °C
- ▶ Low temperature –40 °C | –40 °F, food grade, IP69k
Tieftemperatur –40 °C, lebensmitteltauglich, IP69k
- ▶ **Pressure proof versions up to 1000 bar | 14500 psi**
Druckfeste Ausführungen bis 1000 bar
- ▶ Devices with analog output
Geräte mit Analogausgang
- ▶ 2-wire 10...55 V_{DC} | 20...250 V_{AC}
2-Leiter 10...55 V_{DC} | 20...250 V_{AC}



Technical data (typ.)

Supply voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<10 mA
Short circuit protection	built-in, self-resetting
Voltage drop	<1.5 V @ 200 mA
Switching indicator	LED, yellow — some models
Operating temperature	–20...+70 °C –4...+158 °F
IP code	IP69k, IP67 rear end

Technische Daten (typ.)

Versorgungsspannung	10...30 V _{DC}
Verpolungsschutz	integriert
Stromaufnahme	<10 mA
Kurzschlusschutz	integriert, selbstrückstellend
Spannungsabfall	<1,5 V @ 200 mA
Schaltanzeige	LED, gelb – einige Ausführungen
Betriebstemperatur	–20...+70 °C
Schutzart	IP69k, IP67 Rückseite



S_n [mm]	Connection Anschluss	Pressure proof Druckfest	Housing length [mm] Gehäuselänge [mm]	Order code Bestellnummer	Figure Abbildung
M12×1	1.5	500 bar 7251 psi	43	IHP12-S1.5PO43-A2P	1
			47	IHP12-S1.5PO47-A2P	1
			56	IHP12-S1.5PO56-A12	1
			56	IHP12-S1.5PO57-A12	2
			69	IHP12-S1.5PO69-A12	3
			78	IHP12-S1.5PO78-A2P	1
			78	IHP12-S1.5PO78-A12	1
			93	IHP12-S1.5PO93-A12	3
			93	IHP12-S1.5PO94-A12	1
			138	IHP12-S1.5PO138-A12	3
	2	500 bar 7251 psi	56	IHP12-S2PO56-A12	1
			78	IHP12-S2PO78-A12	1
M14×1	3	500 bar 7251 psi	56	IHP14-S3PO56-A2P	4
		1000 bar 14500 psi	65	IHP14-S3PO65-A12	
			56	IHP14-S3PO56S-A2P	
			65	IHP14-S3PO65S-A12	
M18×1	3	500 bar 7251 psi	65	IHP18-S3PO65S-A2P	5
		1000 bar 14500 psi	79	IHP18-S3PO79S-A12	

Order codes are for PNP, NO (PO) configuration. All devices also available in PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) configuration.
Bestellnummern für PNP, NO (PO) Konfiguration. Alle Geräte auch erhältlich als PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) Konfiguration.

Figure · Abbildung #1

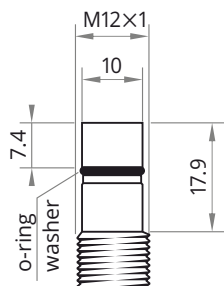


Figure · Abbildung #2

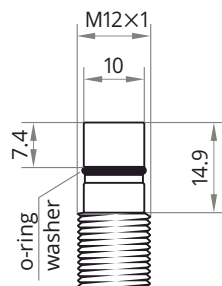


Figure · Abbildung #3

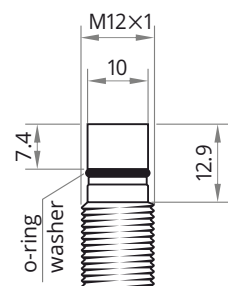


Figure · Abbildung #4

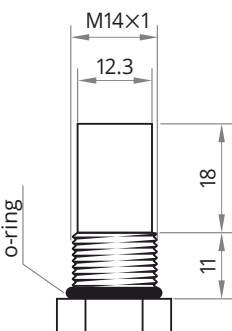
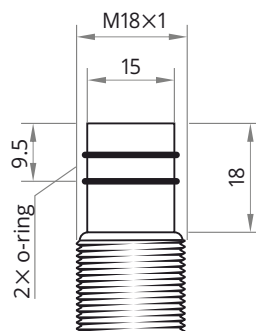
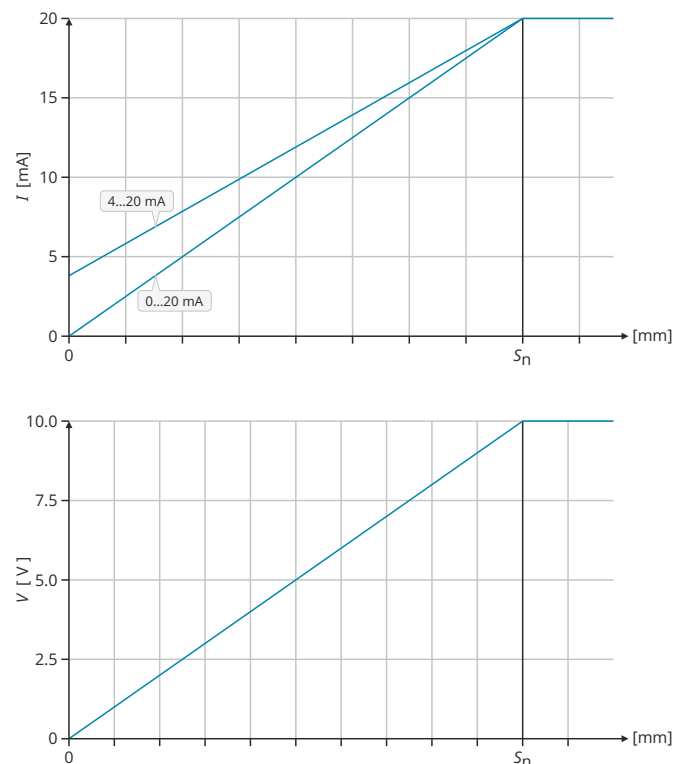


Figure · Abbildung #5



Proximity Switches, inductive Näherungsschalter, induktiv

- ▶ Miniature, Ø3 mm...Ø5×5 mm
Miniatur, Ø3 mm...Ø5×5 mm
- ▶ High performance with up to $4 \times S_n$
Hochleistung mit bis zu $4 \times S_n$
- ▶ Closed stainless steel housing with IP69k
Geschlossene Edelstahlgehäuse mit IP69k
- ▶ High temperature proof versions up to 180 °C | 356 °F
Hochtemperaturfeste Ausführungen bis 180 °C
- ▶ Low temperature -40 °C | -40 °F, food grade, IP69k
Tieftemperatur -40 °C, lebensmitteltauglich, IP69k
- ▶ Pressure proof versions up to 1000 bar | 14500 psi
Druckfeste Ausführungen bis 1000 bar
- ▶ **Devices with analog output**
Geräte mit Analogausgang
- ▶ 2-wire 10...55 V_{DC} | 20...250 V_{AC}
2-Leiter 10...55 V_{DC} | 20...250 V_{AC}



Technical data (typ.)

Supply voltage	18...35 V _{DC}
Reverse polarity protection	built-in
Current consumption	<10 mA
Output, pin 4, black	
Voltage	0...10 V
Current load capability	<7 mA
Bandwidth	500 Hz
Short circuit protection	built-in, self-resetting
Output, pin 2, white	
Current	0...20 mA
Bandwidth	500 Hz
Supply voltage indicator	LED, green
Operating temperature	-20...+70 °C -4...+158 °F
IP code	IP67

Technische Daten (typ.)

Versorgungsspannung	18...35 V _{DC}
Verpolungsschutz	integriert
Stromaufnahme	<10 mA
Ausgang, Pin 4, Schwarz	
Spannung	0...10 V
Strombelastbarkeit	<7 mA
Bandbreite	500 Hz
Kurzschlusschutz	integriert, selbstrückstellend
Ausgang, Pin 2, Weiß	
Strom	0...20 mA
Bandbreite	500 Hz
Betriebsspannungsanzeige	LED, grün
Betriebstemperatur	-20...+70 °C
Schutzart	IP67



	Mounting Montage	S _n [mm]	Connection Anschluss	Outputs Ausgänge	Housing length · Gehäuselänge [mm]					
					45	50	55	60	68	79
M8X1	●	2	Cable 2 m, PVC	0...10 V	IA8-S2V-G2P					
			Connector M8	0...10 V				IA8-S2V-G8		
	○	4	Cable 2 m, PVC	0...10 V	IA8-N4V-G2P					
			Connector M8	0...10 V				IA8-N4V-G8		
M12X1	●	3	Cable 2 m, PVC	0...10 V	IA8-S3V-G2P					
			Connector M8	0...10 V				IA8-S3V-G8		
	○	6	Cable 2 m, PVC	0...10 V	IA8-N6V-G2P					
			Connector M8	0...10 V				IA8-N6V-G8		
M12X1	●	4	Cable 2 m, PVC	0...10 V 0...20 mA		IA12-S4VI020-G2P				
				0...10 V 4...20 mA		IA12-S4VI420-G2P				
			Connector M12	0...10 V 0...20 mA					IA12-S4VI020-G12	
				0...10 V 4...20 mA					IA12-S4VI420-G12	
	○	8	Cable 2 m, PVC	0...10 V 0...20 mA		IA12-N8VI020-G2P				
				0...10 V 4...20 mA		IA12-N8VI420-G2P				
			Connector M12	0...10 V 0...20 mA					IA12-N8VI020-G12	
				0...10 V 4...20 mA					IA12-N8VI420-G12	
	●	6	Cable 2 m, PVC	0...10 V 0...20 mA		IA12-S6VI020-G2P				
				0...10 V 4...20 mA		IA12-S6VI420-G2P				
			Connector M12	0...10 V 0...20 mA					IA12-S6VI020-G12	
				0...10 V 4...20 mA					IA12-S6VI420-G12	
	○	10	Cable 2 m, PVC	0...10 V 0...20 mA		IA12-N10VI020-G2P				
				0...10 V 4...20 mA		IA12-N10VI420-G2P				
			Connector M12	0...10 V 0...20 mA					IA12-N10VI020-G12	
				0...10 V 4...20 mA					IA12-N10VI420-G12	
M18X1	●	8	Cable 2 m, PVC	0...10 V 0...20 mA			IA18-S8VI020-G2P			
				0...10 V 4...20 mA			IA18-S8VI420-G2P			
			Connector M12	0...10 V 0...20 mA						IA18-S8VI020-G12
				0...10 V 4...20 mA						IA18-S8VI420-G12
	○	16	Cable 2 m, PVC	0...10 V 0...20 mA			IA18-N16VI020-G2P			
				0...10 V 4...20 mA			IA18-N16VI420-G2P			
			Connector M12	0...10 V 0...20 mA						IA18-N16VI020-G12
				0...10 V 4...20 mA						IA18-N16VI420-G12
	●	12	Cable 2 m, PVC	0...10 V 0...20 mA			IA18-S12VI020-G2P			
				0...10 V 4...20 mA			IA18-S12VI420-G2P			
			Connector M12	0...10 V 0...20 mA						IA18-S12VI0-G12
				0...10 V 4...20 mA						IA18-S12VI4-G12
	○	20	Cable 2 m, PVC	0...10 V 0...20 mA			IA18-N20VI020-G2P			
				0...10 V 4...20 mA			IA18-N20VI420-G2P			
			Connector M12	0...10 V 0...20 mA						IA18-N20VI0-G12
				0...10 V 4...20 mA						IA18-N20VI4-G12
M30X1.5	●	16	Cable 2 m, PVC	0...10 V 0...20 mA			IA30-S16VI020-G2P			
				0...10 V 4...20 mA			IA30-S16VI420-G2P			
			Connector M12	0...10 V 0...20 mA						IA30-S16VI020-G12
				0...10 V 4...20 mA						IA30-S16VI420-G12
	○	25	Cable 2 m, PVC	0...10 V 0...20 mA			IA30-N25VI020-G2P			
				0...10 V 4...20 mA			IA30-N25VI420-G2P			
			Connector M12	0...10 V 0...20 mA						IA30-N25VI020-G12
				0...10 V 4...20 mA						IA30-N25VI420-G12
	●	20	Cable 2 m, PVC	0...10 V 0...20 mA			IA30-S20VI020-G2P			
				0...10 V 4...20 mA			IA30-S20VI420-G2P			
			Connector M12	0...10 V 0...20 mA						IA30-S20VI020-G12
				0...10 V 4...20 mA						IA30-S20VI420-G12
	○	40	Cable 2 m, PVC	0...10 V 0...20 mA			IA30-N40VI020-G2P			
				0...10 V 4...20 mA			IA30-N40VI420-G2P			
			Connector M12	0...10 V 0...20 mA						IA30-N40VI020-G12
				0...10 V 4...20 mA						IA30-N40VI420-G12

Proximity Switches, inductive Näherungsschalter, induktiv

- ▶ Miniature, Ø3 mm...Ø5×5 mm
Miniatur, Ø3 mm...Ø5×5 mm
- ▶ High performance with up to $4 \times S_n$
Hochleistung mit bis zu $4 \times S_n$
- ▶ Closed stainless steel housing with IP69k
Geschlossene Edelstahlgehäuse mit IP69k
- ▶ High temperature proof versions up to 180 °C | 356 °F
Hochtemperaturfeste Ausführungen bis 180 °C
- ▶ Low temperature –40 °C | –40 °F, food grade, IP69k
Tieftemperatur –40 °C, lebensmitteltauglich, IP69k
- ▶ Pressure proof versions up to 1000 bar | 14500 psi
Druckfeste Ausführungen bis 1000 bar
- ▶ Devices with analog output
Geräte mit Analogausgang
- ▶ **2-wire 10...55 V_{DC} | 20...250 V_{AC}**
2-Leiter 10...55 V_{DC} | 20...250 V_{AC}



Technical data (typ.)

Supply voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<10 mA
10...55 V_{DC}	
Reverse polarity protection	built-in
Current load capability	200 mA
Short circuit protection	built-in, self-resetting
Voltage drop	<1.5 V @ 200 mA
20...255 V_{AC}	
Reverse polarity protection	inherently
Current load capability	400 mA
Short circuit protection	none
Switching indicator	LED, yellow
Operating temperature	–20...+70 °C –4...+158 °F
IP code	IP67

Technische Daten (typ.)

Versorgungsspannung	10...30 V _{DC}
Verpolungsschutz	integriert
Stromaufnahme	<10 mA
10...55 V_{DC}	
Verpolungsschutz	integriert
Ausgangsbelaastbarkeit	200 mA
Kurzschlusschutz	integriert, selbstrückstellend
Spannungsabfall	<1,5 V @ 200 mA
20...255 V_{AC}	
Verpolungsschutz	prinzipbedingt
Ausgangsbelaastbarkeit	400 mA
Kurzschlusschutz	ohne
Schaltanzeige	LED, gelb
Betriebstemperatur	–20...+70 °C
Schutzart	IP67



► 2-wire 10...55 V _{DC}				Housing length · Gehäuselänge [mm]						
Mounting Montage	S _n [mm]	Connection Anschluss		45	50	55	60	68	79	
M8×1	●	2	Cable 2 m, PVC	IPS8-S2DO45-A2P						2000 Hz
			Connector M8				IPS8-S2DO60-A8			
	○	4	Cable 2 m, PVC	IPS8-N4DO45-A2P						2000 Hz
			Connector M8				IPS8-N4DO60-A8			
M12×1	●	4	Cable 2 m, PVC		IPS12-S4DO50-A2P					1000 Hz
			Connector M12					IPS12-S4DO68-A12		
	○	8	Cable 2 m, PVC		IPS12-N8DO50-A2P					500 Hz
			Connector M12					IPS12-N8DO68-A12		
M18×1	●	8	Cable 2 m, PVC			IPS18-S8DO55-A2P				500 Hz
			Connector M12						IPS18-S8DO79-A12	
	○	16	Cable 2 m, PVC			IPS18-N16DO55-A2P				150 Hz
			Connector M12						IPS18-N16DO79-A12	
M30×1.5	●	16	Cable 2 m, PVC			IPS30-S16DO55-A2P				150 Hz
			Connector M12						IPS30-S16DO79-A12	
	○	25	Cable 2 m, PVC			IPS30-N25DO55-A2P				150 Hz
			Connector M12						IPS30-N25DO79-A12	

Selection from our range of products.
 Auszug aus unserem Lieferprogramm.

Order codes are valid for output function NO (DO). All devices also available with output function NC (DC).
 Bestellnummern gültig für Schließer (DO). Alle Geräte sind auch als Öffner (DC) erhältlich.

► 2-wire 20...255 V _{AC}				Housing length · Gehäuselänge [mm]				Switching frequency Schaltfrequenz	
Mounting Montage	S _n [mm]	Connection Anschluss		55	60	68	79		
M12×1	●	4	Cable 2 m, PVC		IPS12-S4AO60-A2P				25 Hz
			Connector M12			IPS12-S4AO68-A12			
	○	8	Cable 2 m, PVC		IPS12-N8DO60-A2P				25 Hz
			Connector M12			IPS12-N8AO68-A12			
M18×1	●	8	Cable 2 m, PVC	IPS18-S8AO55-A2P					25 Hz
			Connector M12				IPS18-S8AO79-A12		
	○	16	Cable 2 m, PVC	IPS18-N16AO55-A2P					25 Hz
			Connector M12				IPS18-N16AO79-A12		
M30×1.5	●	16	Cable 2 m, PVC	IPS30-S16AO55-A2P					25 Hz
			Connector M12				IPS30-S16AO79-A12		
	○	25	Cable 2 m, PVC	IPS30-N25AO55-A2P					25 Hz
			Connector M12				IPS30-N25AO79-A12		

Selection from our range of products.
 Auszug aus unserem Lieferprogramm.

Order codes are valid for output function NO (AO). All devices also available with output function NC (AC).
 Bestellnummern gültig für Schließer (AO). Alle Geräte sind auch als Öffner (AC) erhältlich.

Proximity Switches, capacitive

Näherungsschalter, kapazitiv

- **Metal housings from Ø6.5 mm...M30**
Metallgehäuse Ø6,5 mm...M30
- **Chemical resistant PTFE housings for M18 and M30**
Chemisch beständige PTFE-Gehäuse für M18 und M30
- Highest sensing distances in its class
Höchste Schaltabstände ihrer Klasse
- Sensitivity adjustment by multi-turn potentiometer
Einstellung des Schaltpunktes mit Mehrgang-Potentiometer
- Plastic housings made of PBT M12...M30
Kunststoffgehäuse aus PBT M12...M30



Technical data (typ.)

Supply voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<10 mA
Short circuit protection	built-in, self-resetting
Voltage drop	<1.5 V @ 200 mA
Switching indicator	LED, yellow
Operating temperature	-20...+70 °C -4...+158 °F
IP code	IP67

Technische Daten (typ.)

Versorgungsspannung	10...30 V _{DC}
Verpolungsschutz	integriert
Stromaufnahme	<10 mA
Kurzschlusschutz	integriert, selbstrückstellend
Spannungsabfall	<1,5 V @ 200 mA
Schaltanzeige	LED, gelb
Betriebstemperatur	-20...+70 °C
Schutzart	IP67



	Mounting Montage	S _n [mm]	Connection Anschluss	Housing Material Gehäusematerial	Housing length · Gehäuselänge [mm]			
					45	60	70	80
M8X1	●	2	Cable 2 m, PVC	Brass · Messing	CS8-S2PO45-A2P			
			Connector M8	Brass · Messing		CS8-S2PO60-A8		
			Connector M12	Brass · Messing			CS8-S2PO70-A12	
	○	4	Cable 2 m, PVC	Brass · Messing	CS8-N4PO45-A2P			
			Connector M8	Brass · Messing		CS8-N4PO60-A8		
			Connector M12	Brass · Messing			CS8-N4PO70-A12	
M12X1	●	4	Cable 2 m, PVC	Brass · Messing		CS12-S4PO60-A2P		
			Connector M12	Brass · Messing		CS12-S4PO60-A12		
		6	Cable 2 m, PVC	Brass · Messing		CS12-S6PO60-A2P		
			Connector M12	Brass · Messing		CS12-S6PO60-A12		
	○	8	Cable 2 m, PVC	Brass · Messing		CS12-N8PO60-A2P		
			Connector M12	Brass · Messing		CS12-N8PO60-A12		
		10	Cable 2 m, PVC	Brass · Messing		CS12-N10PO60-A2P		
			Connector M12	Brass · Messing		CS12-N10PO60-A12		
M18X1	●	8	Cable 2 m, PVC	Brass · Messing				CS18-S8PO80-A2P
			Cable 2 m, PTFE	PTFE				CS18-S8PO80T-A2P
			Connector M12	Brass · Messing				CS18-S8PO80-A12
		12	Cable 2 m, PVC	Brass · Messing				CS18-S12PO80-A2P
			Cable 2 m, PTFE	PTFE				CS18-S12PO80T-A2P
			Connector M12	Brass · Messing				CS18-S12PO80-A12
	○	15	Cable 2 m, PVC	Brass · Messing				CS18-N15PO80-A2P
			Cable 2 m, PTFE	PTFE				CS18-N15PO80T-A2P
			Connector M12	Brass · Messing				CS18-N15PO80-A12
		20	Cable 2 m, PVC	Brass · Messing				CS18-N20PO80-A2P
			Cable 2 m, PTFE	PTFE				CS18-N20PO80T-A2P
			Connector M12	Brass · Messing				CS18-N20PO80-A12
M30X1.5	●	20	Cable 2 m, PVC	Brass · Messing				CS30-S20PO80-A2P
			Cable 2 m, PTFE	PTFE				CS30-S20PO80T-A2P
			Connector M12	Brass · Messing				CS30-S20PO80-A12
		25	Cable 2 m, PVC	Brass · Messing				CS30-S25PO80-A2P
			Cable 2 m, PTFE	PTFE				CS30-S25PO80T-A2P
			Connector M12	Brass · Messing				CS30-S25PO80-A12
	○	30	Cable 2 m, PVC	Brass · Messing				CS30-N30PO80-A2P
			Cable 2 m, PTFE	PTFE				CS30-N30PO80T-A2P
			Connector M12	Brass · Messing				CS30-N30PO80-A12
		35	Cable 2 m, PVC	Brass · Messing				CS30-N35PO80-A2P
			Cable 2 m, PTFE	PTFE				CS30-N35PO80T-A2P
			Connector M12	Brass · Messing				CS30-N35PO80-A12

Selection from our range of products.
Auszug aus unserem Lieferprogramm.

Order codes are valid for PNP, NO (PO) configuration. All devices also available in PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) configuration.
Bestellnummern gelten für PNP, NO (PO) Konfiguration. Alle Geräte auch erhältlich als PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) Konfiguration.

Proximity Switches, capacitive

Näherungsschalter, kapazitiv

- ▶ Metal housings from Ø6.5 mm...M30
Metallgehäuse Ø6,5 mm...M30
- ▶ Chemical resistant PTFE housings for M18 and M30
Chemisch beständige PTFE-Gehäuse für M18 und M30
- ▶ **Highest sensing distances in its class**
Höchste Schaltabstände ihrer Klasse
- ▶ Sensitivity adjustment by multi-turn potentiometer
Einstellung des Schaltpunktes mit Mehrgang-Potentiometer
- ▶ **Plastic housings made of PBT M12...M30**
Kunststoffgehäuse aus PBT M12...M30



Technical data (typ.)

Supply voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<10 mA
Short circuit protection	built-in, self-resetting
Voltage drop	<1.5 V @ 200 mA
Switching indicator	LED, yellow
Housing material	PBT
Operating temperature	-20...+70 °C -4...+158 °F
IP code	IP67

Technische Daten (typ.)

Versorgungsspannung	10...30 V _{DC}
Verpolungsschutz	integriert
Eigenstromaufnahme	<10 mA
Kurzschlusschutz	integriert, selbstrückstellend
Spannungsabfall	<1,5 V @ 200 mA
Schaltanzeige	LED, gelb
Gehäusematerial	PBT
Betriebstemperatur	-20...+70 °C
Schutzart	IP67



	Mounting Montage	S _n [mm]	Connection Anschluss	Housing length · Gehäuselänge [mm]			
				60	80	30 × 50 × 7	40 × 40 × 142
M12×1	●	4	Cable 2 m, PVC	CS12-S4PO60P-A2P			
			Connector M12	CS12-S4PO60P-A12			
		6	Cable 2 m, PVC	CS12-S6PO60P-A2P			
			Connector M12	CS12-S6PO60P-A12			
	○	8	Cable 2 m, PVC	CS12-N8PO60P-A2P			
			Connector M12	CS12-N8PO60P-A12			
		10	Cable 2 m, PVC	CS12-N10PO60P-A2P			
			Connector M12	CS12-N10PO60P-A12			
M18×1	●	8	Cable 2 m, PVC		CS18-S8PO80P-A2P		
			Connector M12		CS18-S8PO80P-A12		
		12	Cable 2 m, PVC		CS18-S12PO80P-A2P		
			Connector M12		CS18-S12PO80P-A12		
	○	15	Cable 2 m, PVC		CS18-N15PO80P-A2P		
			Connector M12		CS18-N15PO80P-A12		
		20	Cable 2 m, PVC		CS18-N20PO80P-A2P		
			Connector M12		CS18-N20PO80P-A12		
M30×1	●	20	Cable 2 m, PVC		CS30-S20PO80P-A2P		
			Connector M12		CS30-S20PO80P-A12		
		25	Cable 2 m, PVC		CS30-S25PO80P-A2P		
			Connector M12		CS30-S25PO80P-A12		
	○	30	Cable 2 m, PVC		CS30-N30PO80P-A2P		
			Connector M12		CS30-N30PO80P-A12		
		35	Cable 2 m, PVC		CS30-N35PO80P-A2P		
			Connector M12		CS30-N35PO80P-A12		
□30×50	●	6	Cable, 2 m			CS3050-S6PO-A2P	
			30 cm, PUR, M8			CS3050-S6PO-3U8	
	○	10	Cable, 2 m			CS3050-N10PO-A2P	
			30 cm, PUR, M8			CS3050-N10PO-3U8	
□40×40	●	20	Terminal block				CS40-S20POL-PG13
	○	30					CS40-N30POL-PG13

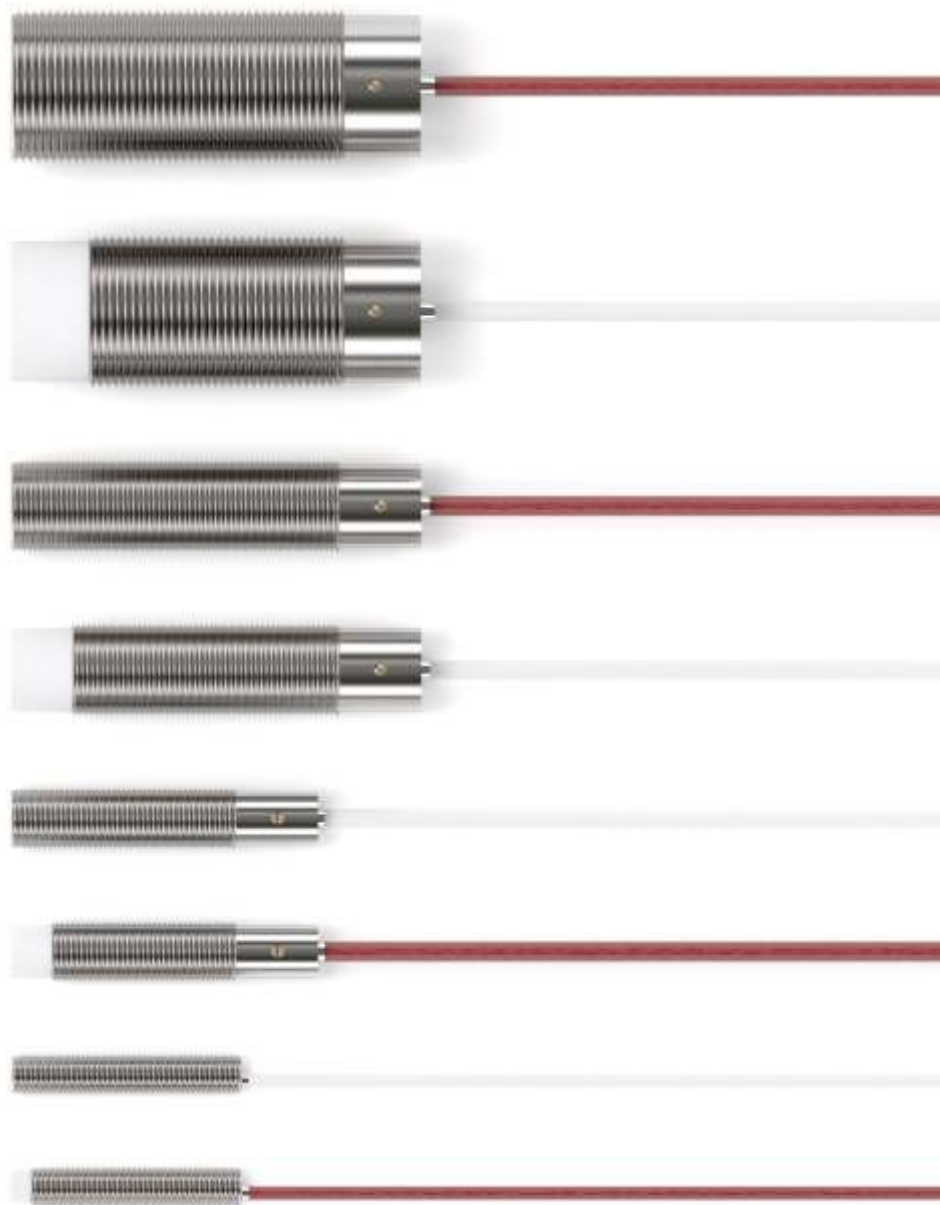
Selection from our range of products.
 Auszug aus unserem Lieferprogramm.

Order codes are valid for PNP, NO (PO) configuration. All devices also available in PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) configuration.
 Bestellnummern gelten für PNP, NO (PO) Konfiguration. Alle Geräte auch erhältlich als PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) Konfiguration.

Proximity Switches, capacitive

Näherungsschalter, kapazitiv

- ▶ **Permanent temperature up to 150 °C | 302 °F**
Dauerhaft temperaturbeständig bis zu 150 °C
- ▶ Highest sensing distances in its class
Höchste Schaltabstände ihrer Klasse
- ▶ Sensitivity adjustment by multi-turn potentiometer
Einstellung des Schaltpunktes mit Mehrgang-Potentiometer
- ▶ Metal housings Ø6.5 mm...M30
Metallgehäuse Ø6,5 mm...M30



Technical data (typ.)

Supply voltage	10...30 V _{DC}
Reverse polarity protection	built-in
Current consumption	<10 mA
Short circuit protection	built-in, self-resetting
Voltage drop	<1.5 V @ 200 mA
Operating temperature	−20... °C −4... °F
IP code	IP67

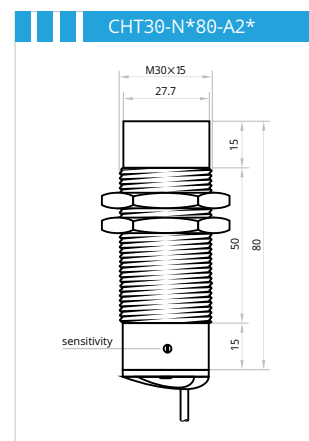
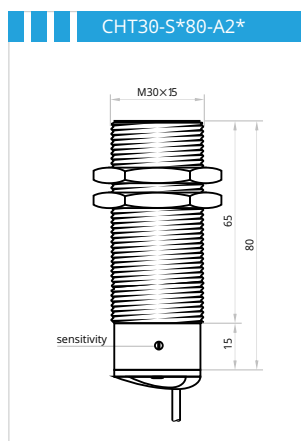
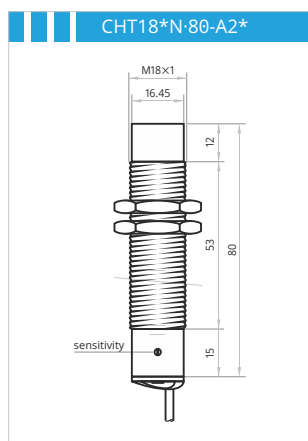
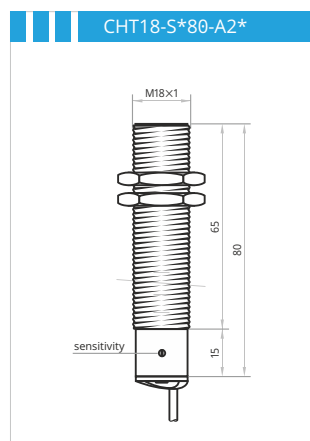
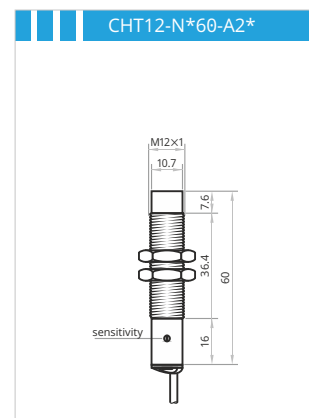
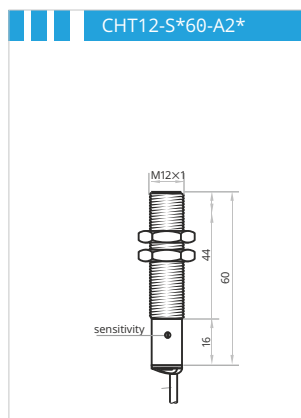
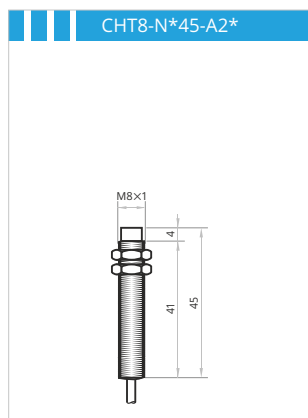
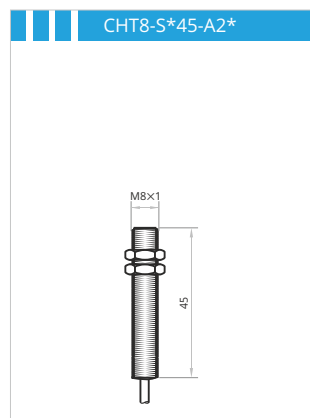
Technische Daten (typ.)

Versorgungsspannung	10...30 V _{DC}
Verpolungsschutz	integriert
Stromaufnahme	<10 mA
Kurzschlusschutz	integriert, selbstrückstellend
Spannungsabfall	<1,5 V @ 200 mA
Betriebstemperatur	−20... °C
Schutzart	IP67



	Mounting Montage	S _n [mm]	Connection Anschluss	Temperature · Temperatur [permanent]		Output load capability Ausgangsbelastbarkeit
				120 °C 250 °F	150 °C 300 °F	
M8x1	●	2	Cable 2 m, silicone	CHT8-S2APO45-N2S	CHT8-S2BPO45-N2S	<120 mA
			Cable 2 m PTFE	CHT8-S2APO45-N2T	CHT8-S2BPO45-N2T	<120 mA
	○	4	Cable 2 m, silicone	CHT8-N4APO45-N2S	CHT8-N4BPO45-N2S	<120 mA
			Cable 2 m PTFE	CHT8-N4APO45-N2T	CHT8-N4BPO45-N2T	<120 mA
M12x1	●	2	Cable 2 m, silicone	CHT12-S2APO60-N2S	CHT12-S2BPO60-N2S	<120 mA
			Cable 2 m PTFE	CHT12-S2APO60-N2T	CHT12-S2BPO60-N2T	<120 mA
	○	4	Cable 2 m, silicone	CHT12-N4APO60-N2S	CHT12-N4BPO60-N2S	<120 mA
			Cable 2 m PTFE	CHT12-N4APO60-N2T	CHT12-N4BPO60-N2T	<120 mA
	●	4	Cable 2 m, silicone	CHT12-S4APO60-N2S	CHT12-S4BPO60-N2S	<120 mA
			Cable 2 m PTFE	CHT12-S4APO60-N2T	CHT12-S4BPO60-N2T	<120 mA
	○	8	Cable 2 m, silicone	CHT12-N8APO60-N2S	CHT12-N8BPO60-N2S	<120 mA
			Cable 2 m PTFE	CHT12-N8APO60-N2T	CHT12-N8BPO60-N2T	<120 mA
M18x1	●	5	Cable 2 m, silicone	CHT18-S5APO80-N2S	CHT18-S5BPO80-N2S	<150 mA
			Cable 2 m PTFE	CHT18-S5APO80-N2T	CHT18-S5BPO80-N2T	<150 mA
	○	8	Cable 2 m, silicone	CHT18-N8APO80-N2S	CHT18-N8BPO80-N2S	<150 mA
			Cable 2 m PTFE	CHT18-N8APO80-N2T	CHT18-N8BPO80-N2T	<150 mA
M30x1.5	●	10	Cable 2 m, silicone	CHT30-S10APO80-N2S	CHT30-S10BPO80-N2S	<150 mA
			Cable 2 m PTFE	CHT30-S10APO80-N2T	CHT30-S10BPO80-N2T	<150 mA
	○	15	Cable 2 m, silicone	CHT30-N15APO80-N2S	CHT30-N15BPO80-N2S	<150 mA
			Cable 2 m PTFE	CHT30-N15APO80-N2T	CHT30-N15BPO80-N2T	<150 mA

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Bestellnummern für PNP, NO (PO) Konfiguration. Alle Geräte auch erhältlich als PNP, NC (PC), NPN, NO (NO), NPN, NC (NC) Konfiguration.





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