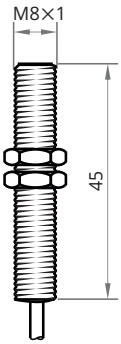
M8 induktiver Sensor Tmax. +140°C
IG8-2B-45E-PS-SK2-T140

Kenndaten

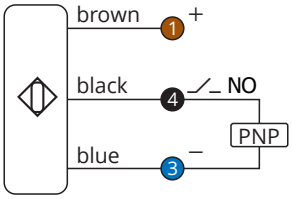
Technische Daten

Schaltfunktion	Schließer (NO) (optional lieferbar als Öffner (NC)
Ausgangstyp	PNP
Schaltabstand S_n	2 mm (optional 4 mm nichtbündig)
Einbau	bündig
Hysterese	3 ... 15 %
Wiederholgenauigkeit	< 3 %
Betriebsspannung	10 ... 30 VDC
Normmessplatte	8x8x1mm ST37
Umgebungstemperaturen	0 ... +140 °C
Schaltfrequenz	≤ 400 Hz
Reduktionsfaktoren	ST37 1.0 · Alu 0.45 · Messing 0.5 · VA 0.85
Verpolschutz	ja
Kurzschlussschutz	ja, selbst-rückstellend
Schutzart	IP67
Ausgangsstrom	100 mA
Spannungsabfall	≤ 2V @ 100 mA
Leerlaufstrom	≤ 10 mA
Schaltzustandsanzeige	keine
Sensorgehäuse	M8x1 - L45mm - V2A 1.4301
Material aktive Fläche	PTFE
Anschluss	2m Silikon-Kabel

Abmessungen



Anschluss



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Änderungen vorbehalten

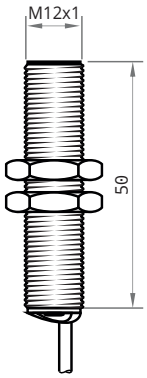
M12 induktiver Sensor Tmax. +150°C
IG12-4B-50E-PS-SK2-T150

Kenndaten

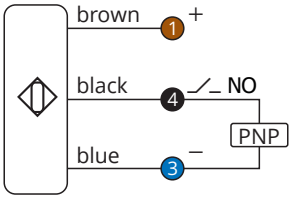
Technische Daten

Schaltfunktion	Schließer (NO) (optional lieferbar als Öffner (NC)
Ausgangstyp	PNP
Schaltabstand S_n	4 mm (optional 8 mm nichtbündig)
Einbau	bündig
Hysterese	3 ... 15 %
Wiederholgenauigkeit	< 3 %
Betriebsspannung	10 ... 30 VDC
Normmessplatte	12x12x1mm ST37
Umgebungstemperaturen	0 ... +150 °C
Schaltfrequenz	≤ 400 Hz
Reduktionsfaktoren	ST37 1.0 · Alu 0.45 · Messing 0.5 · VA 0.85
Verpolschutz	ja
Kurzschlussschutz	ja, selbst-rückstellend
Schutzart	IP67
Ausgangsstrom	100 mA
Spannungsabfall	≤ 2V @ 100 mA
Leerlaufstrom	≤ 10 mA
Schaltzustandsanzeige	keine
Sensorgehäuse	M12x1 - L50mm - V2A 1.4301
Material aktive Fläche	PTFE
Anschluss	2m Silikon-Kabel

Abmessungen



Anschluss



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Änderungen vorbehalten

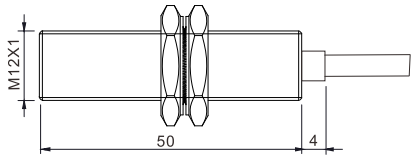
M12 induktiver Sensor Tmax. +230°C
IGT12-2B-50E-PS-T3M-T230

Kenndaten

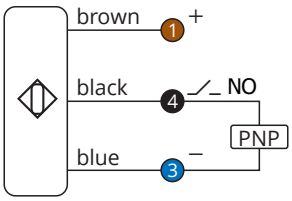
Technische Daten

Schaltfunktion	Schließer (NO) (optional lieferbar als Öffner (NC)
Ausgangstyp	PNP
Schaltabstand S_n	2 mm
Einbau	bündig
Hysterese	3 ... 15 %
Wiederholgenauigkeit	< 3 %
Betriebsspannung	10 ... 30 VDC
Normmessplatte	12x12x1mm ST37
Umgebungstemperaturen	0 ... +230 °C
Schaltfrequenz	≤ 100 Hz
Reduktionsfaktoren	ST37 1.0 · Alu 0.45 · Messing 0.5 · VA 0.85
Verpolschutz	ja
Überspannungsschutz	ja
Schutzart	IP66
Ausgangsstrom	100 mA
Spannungsabfall	≤ 2V @ 100 mA
Leerlaufstrom	≤ 25 mA
Schaltzustandsanzeige	keine
Sensorgehäuse	M12x1 - L50mm - V2A 1.4301
Material aktive Fläche	PEEK
Anschluss	3m Teflon-Kabel

Abmessungen



Anschluss



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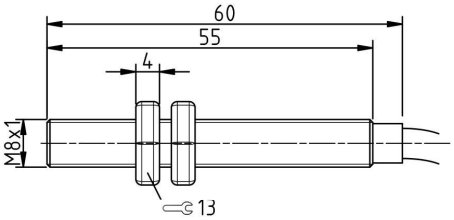
HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: **2 mm** - Housing Diameter: **M8**



Dimensions are in mm.

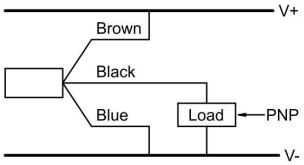
Part Numbers:	
PNP/NO	**IN2-8HTPS-140**
NPN/NO	**IN2-8HTNS-140**

Technical Data:	
Mounting:	Shielded
Sensing range in mm:	2
Supply voltage:	10-35 VDC
Output function:	N.O.
Load current:	120 mA up to 266 °F (130 °C), 70 mA up to 284 °F (140 °C)
Switching Frequency:	800 Hz
Short circuit limit:	400 mA
Cable:	Silicone
Operating temperature:	-13 to 284 °F (-25 to 140 °C)
Target size:	8 x 8 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	No
Options:	Cable length, Cable type

This sensor has the following specifications:

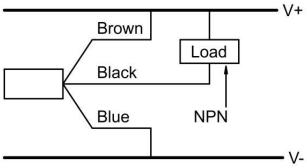
* The EMC (Electromagnetic Compatibility) resistance of the switches:
  IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2
  IEC 61000-4-3 Level 2 IEC 60255-5 1 kV
* Sensing range can vary +/-10 %.
* Voltage spikes (300 V for 1 ms, 10 Hz)
* All standard cables are 3 x 0.25 mm^2 and a length of 2 m +/-5 %.
* Output capacity is 100 nF.
* Storage temperature -13 °F to + 176 °F (-25 °C to 80 °C).
* Relative humidity is 100 %.
* Vibration resistant to 1 mm amplitude at 55 Hz.
* Shock resistant to 10 g for a period of 11 ms.
* Degree of protection (DIN 40 050) is IP67 (higher IP options may be available).
* Reverse polarity protection is incorporated on the supply voltage.
* Load resistor of 100 kOhm is incorporated.
* Leakage current is 4 mA at 24 V supply voltage.
* Residual ripple is 15 %.
* Voltage drop is aproximently 2 V when sensor is on.
* Sensing face material is: LPC-Vectra.

Wiring Diagram PNP NO



Special types and silicone free versions are available upon request

Wiring Diagram NPN NO



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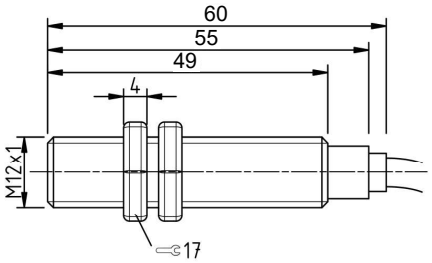
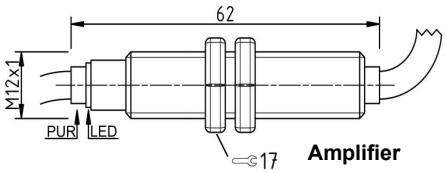
HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

Sensing Distance: **2 mm** - Housing Diameter: **M12**





Amplifier

Dimensions are in mm.

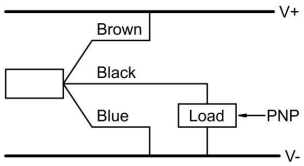
Part Numbers:	
PNP/NO	**IN2-12HTPS-200EXT**
PNP/NC	**IN2-12HTPO-200EXT**
NPN/NO	**IN2-12HTNS-200EXT**
NPN/NC	**IN2-12HTNO-200EXT**

Technical Data:	
Mounting:	flush
Sensing range in mm:	2
Supply voltage:	10-36 VDC
Output function:	N.O. or N.C.
Load current:	200 mA
Switching Frequency:	500 Hz
Short circuit limit:	240 mA
Cable version:	Sensor: PTFE, Amplifier: PUR
Operating temperature:	-13 to 392 °F (-25 to 200 °C)
Target size:	50 x 50 x 1 mm ST37
Hysteresis:	3 to 20 %
LED:	Yes (on amplifier)
Options:	Cable length, Cable type

This sensor has the following specifications:

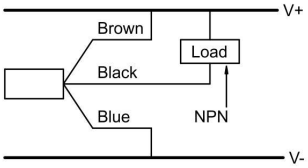
* The EMC (Electromagnetic Compatibility) resistance of the switches:
  IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2
  IEC 61000-4-3 Level 2 IEC 60255-5 1 kV
* Sensing range can vary +/-10 %.
* Voltage spikes (300 V for 1 ms, 10 Hz)
* All standard cables are 3 x 0.25 mm^2 and a length of 2 m +/-5 %.
* Output capacity is 100 nF.
* Storage temperature -13 °F to + 176 °F (-25 °C to 80 °C).
* Relative humidity is 100 %.
* Vibration resistant to 1 mm amplitude at 55 Hz.
* Shock resistant to 5 g for a period of 11 ms.
* Degree of protection (DIN 40 050) is IP67 (higher IP options may be available).
* Reverse polarity protection is incorporated on the supply voltage.
* Load resistor of 100 kOhm is incorporated.
* Leakage current is 4 mA at 24 V supply voltage.
* Residual ripple is 15 %.
* Voltage drop is aproximently 2 V when sensor is on.
* Sensing face material is: LPC-Vectra.
* Temperature specification for external amplifier:
  +14 to +158°F (-10 °C to 70 °C).

Wiring Diagram PNP NO/NC



Special types and silicone free versions are available upon request

Wiring Diagram NPN NO/NC



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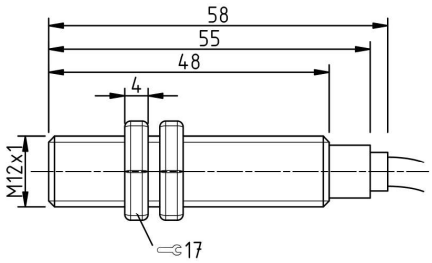
Änderungen vorbehalten

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

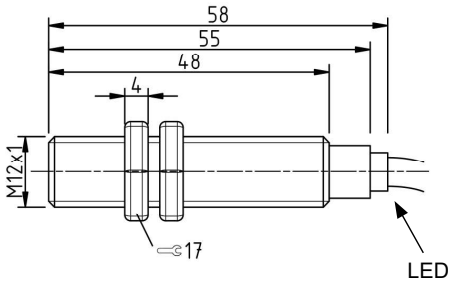
Sensing Distance: **3mm** - Housing Diameter: **M12**



Dimensions are in mm.

Part Numbers:	
PNP/NO	**IN3-12HTPS-150**
PNP/NC	**IN3-12HTPO-150**
NPN/NO	**IN3-12HTNS-150**
NPN/NC	**IN3-12HTNO-150**

Technical Data:	
Mounting:	Shielded
Sensing range in mm:	3
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA up to 266 °F (130 °C), 70 mA up to 302 °F (150 °C)
Switching Frequency:	500 Hz
Short circuit limit:	400 mA
Cable:	Silicone
Operating temperature:	-13 to 302 °F (-25 to 150 °C)
Target size:	12 x 12 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	No
Options:	Cable length, Cable type



Dimensions are in mm.

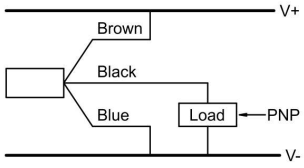
Part Numbers:	
PNP/NO	**IN3-12HTPS/L-130**
PNP/NC	**IN3-12HTPO/L-130**
NPN/NO	**IN3-12HTNS/L-130**
NPN/NC	**IN3-12HTNO/L-130**

Technical Data:	**with LED**
Mounting:	Shielded
Sensing range in mm:	3
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	500 Hz
Short circuit limit:	400 mA
Cable:	PTFE
Operating temperature:	-13 to 266 °F (-25 to 130 °C)
Target size:	12 x 12 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	Yes
Options:	Cable length, Cable type

These sensors share the following specifications:

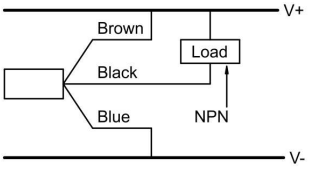
* The EMC (Electromagnetic Compatibility) resistance of the switches:
  IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2
  IEC 61000-4-3 Level 2 IEC 60255-5 1 kV
* Sensing range can vary +/-10 %.
* Voltage spikes (300 V for 1 ms, 10 Hz)
* All standard cables are 3 x 0.25 mm^2 and a length of 2 m +/-5 %.
* Output capacity is 100 nF.
* Storage temperature -13 °F to + 176 °F (-25 °C to 80 °C).
* Relative humidity is 100 %.
* Vibration resistant to 1 mm amplitude at 55 Hz.
* Shock resistant to 10 g for a period of 11 ms.
* Degree of protection (DIN 40 050) is IP67 (higher IP options may be available).
* Reverse polarity protection is incorporated on the supply voltage.
* Load resistor of 100 kOhm is incorporated.
* Leakage current is 4 mA at 24 V supply voltage.
* Residual ripple is 15 %.
* Voltage drop is aproximently 2 V when sensor is on.
* Sensing face material is: LPC-Vectra.

Wiring Diagram PNP NO/NC



Special types and silicone free versions are available upon request

Wiring Diagram NPN NO/NC



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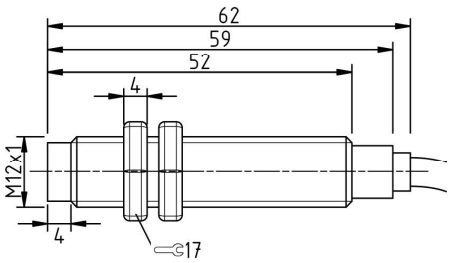
Änderungen vorbehalten

HIGH TEMPERATURE INDUCTIVE PROXIMITY SENSORS

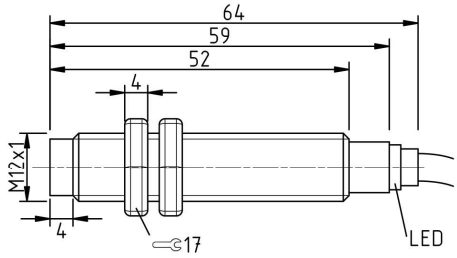
Sensing Distance: **4mm** - Housing Diameter: **M12**



Dimensions are in mm.

Part Numbers:	
PNP/NO	**IN4-12HTPS-150**
PNP/NC	**IN4-12HTPO-150**
NPN/NO	**IN4-12HTNS-150**
NPN/NC	**IN4-12HTNO-150**

Technical Data:	
Mounting:	Unshielded
Sensing range in mm:	4
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA up to 266 °F (130 °C), 70 mA up to 302 °F (150 °C)
Switching Frequency:	500 Hz
Short circuit limit:	400 mA
Cable:	Silicone
Operating temperature:	-13 to 356 °F (-25 to 150 °C)
Target size:	12 x 12 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	No
Options:	Cable length, Cable type



Dimensions are in mm.

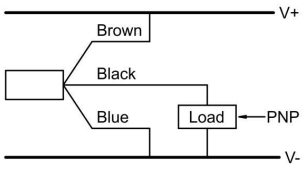
Part Numbers:	
PNP/NO	**IN4-12HTPS/L-130**
PNP/NC	**IN4-12HTPO/L-130**
NPN/NO	**IN4-12HTNS/L-130**
NPN/NC	**IN4-12HTNO/L-130**

Technical Data:	**with LED**
Mounting:	Unshielded
Sensing range in mm:	4
Supply voltage:	10-35 VDC
Output function:	N.O. or N.C.
Load current:	120 mA
Switching Frequency:	500 Hz
Short circuit limit:	400 mA
Cable:	PTFE
Operating temperature:	-13 to 266 °F (-25 to 130 °C)
Target size:	12 x 12 x 1 mm ST37
Hysteresis:	3 to 15 %
LED:	Yes
Options:	Cable length, Cable type

These sensors share the following specifications:

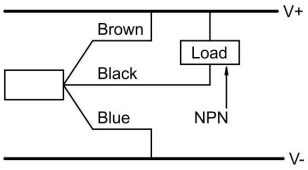
* The EMC (Electromagnetic Compatibility) resistance of the switches:
  IEC 61000-4-2 Level 2 IEC 61000-4-4 Level 2
  IEC 61000-4-3 Level 2 IEC 60255-5 1 kV
* Sensing range can vary +/-10 %.
* Voltage spikes (300 V for 1 ms, 10 Hz)
* All standard cables are 3 x 0.25 mm^2 and a length of 2 m +/-5 %.
* Output capacity is 100 nF.
* Storage temperature -13 °F to + 176 °F (-25 °C to 80 °C).
* Relative humidity is 100 %.
* Vibration resistant to 1 mm amplitude at 55 Hz.
* Shock resistant to 10 g for a period of 11 ms.
* Degree of protection (DIN 40 050) is IP67 (higher IP options may be available).
* Reverse polarity protection is incorporated on the supply voltage.
* Load resistor of 100 kOhm is incorporated.
* Leakage current is 4 mA at 24 V supply voltage.
* Residual ripple is 15 %.
* Voltage drop is aproximently 2 V when sensor is on.
* Sensing face material is: LPC-Vectra.

Wiring Diagram PNP NO/NC



Special types and silicone free versions are available upon request

Wiring Diagram NPN NO/NC



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Baumer
Passion for Sensors

Induktive Sensoren Sondertypen

IFRH 08P1501/L

Induktive Sensoren Sondertypen - high temperature

Artikelnummer: 10164659

Auf einen Blick

- 1,5 mm
- PNP Schliesser (NO)
- Kabel, 2 m
- -25 … 180 °C
- IP 67

Abbildung ähnlich

Technische Daten

Allgemeine Daten	
Einbauart	Bündig
Spezialausführung	Hochtemperaturfest
Nennschaltabstand Sn	1,5 mm
Schalthysterese	2 … 25 % von Sr
Auswertelektronik	
Arbeitstemperatur	-25 … +75 °C
Elektrische Daten	
Schaltfrequenz	4 kHz
Betriebsspannungsbereich +Vs	6 … 30 VDC
Stromaufnahme max. (ohne Last)	12 mA
Ausgangsschaltung	PNP Schliesser (NO)
Spannungsabfall Vd	< 2 VDC

Elektrische Daten	
Ausgangsstrom	< 200 mA
Kurzschlussfest	Ja
Verpolungsfest	Ja
Mechanische Daten	
Bauform	Zylindrisch mit Gewinde
Material (aktive Fläche)	LCP
Gehäusematerial	Edelstahl
Baugrösse	8 mm
Gehäuselänge	30 mm
Anschlussart	Kabel, L=2 m
Umgebungsbedingungen	
Arbeitstemperatur	-25 … +180 °C
Schutzart	IP 67

Bemerkungen

- Abgesetzte Auswertelektronik
- Verbindungskabel Sensorkopf/Auswertelektronik aus FEP
- Sensoranschlusskabel aus PVC, 2 m lang

2022-11-10 Angegebene Produkteigenschaften und technische Daten stellen keine Garantieerklärung dar. Technische Änderungen vorbehalten.

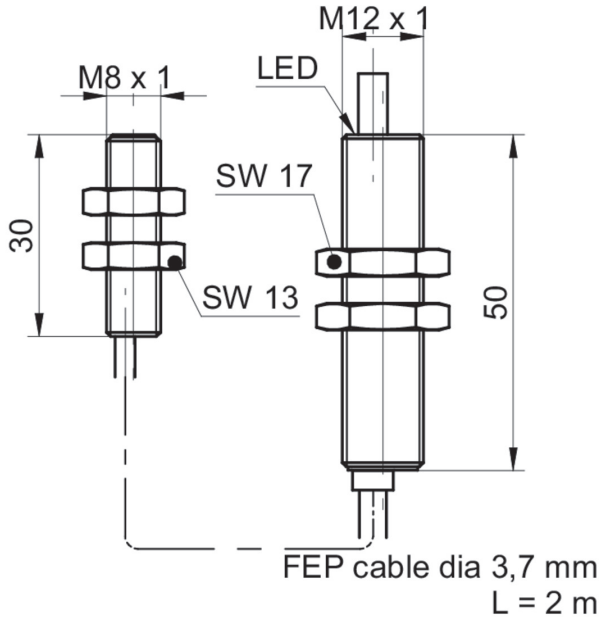
Induktive Sensoren Sondertypen

IFRH 08P1501/L

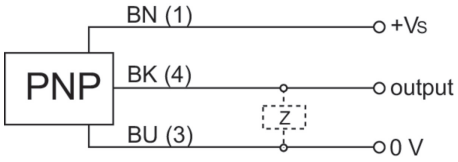
Induktive Sensoren Sondertypen - high temperature

Artikelnummer: 10164659

Masszeichnung



Anschlussbild



2022-11-10 Angegebene Produkteigenschaften und technische Daten stellen keine Garantieerklärung dar. Technische Änderungen vorbehalten.

Baumer
Passion for Sensors

Induktive Sensoren Sondertypen

IFRH 12P1501/L

Induktive Sensoren Sondertypen - high temperature

Artikelnummer: 10139768

Auf einen Blick

- 2 mm
- PNP Schliesser (NO)
- Kabel, 2 m
- -25 … 180 °C
- IP 67

Abbildung ähnlich

Technische Daten

Allgemeine Daten	
Einbauart	Bündig
Spezialausführung	Hochtemperaturfest
Nennschaltabstand Sn	2 mm
Schalthysterese	2 … 20 % von Sr
Auswertelektronik	
Arbeitstemperatur	-25 … +75 °C
Elektrische Daten	
Schaltfrequenz	2 kHz
Betriebsspannungsbereich +Vs	6 … 30 VDC
Stromaufnahme max. (ohne Last)	12 mA
Ausgangsschaltung	PNP Schliesser (NO)
Spannungsabfall Vd	<2 VDC

Elektrische Daten	
Ausgangsstrom	200 mA
Kurzschlussfest	Ja
Verpolungsfest	Ja
Mechanische Daten	
Bauform	Zylindrisch mit Gewinde
Material (aktive Fläche)	PBT
Gehäusematerial	Messing vernickelt
Baugrösse	12 mm
Gehäuselänge	30 mm
Anschlussart	Kabel, L=2 m
Umgebungsbedingungen	
Arbeitstemperatur	-25 … +180 °C
Schutzart	IP 67

Bemerkungen

- Abgesetzte Auswertelektronik
- Verbindungskabel Sensorkopf/Auswertelektronik aus FEP
- Sensoranschlusskabel aus PVC, 2 m lang

2023-08-30 Angegebene Produkteigenschaften und technische Daten stellen keine Garantieerklärung dar. Technische Änderungen vorbehalten.

Baumer
Passion for Sensors

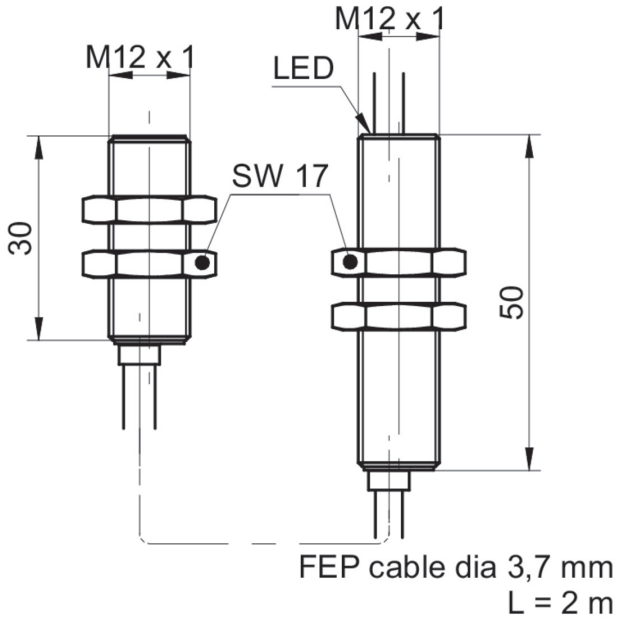
Induktive Sensoren Sondertypen

IFRH 12P1501/L

Induktive Sensoren Sondertypen - high temperature

Artikelnummer: 10139768

Masszeichnung



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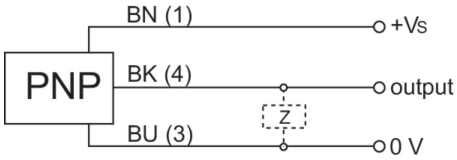

2023-08-30 Angegebene Produkteigenschaften und technische Daten stellen keine Garantieerklärung dar. Technische Änderungen vorbehalten.