

**Overview**

- Extra flat, front-mountable housing
- Lowest serial dispersion due to end-of-line calibration
- Robust even in demanding environments
- Temperature and long-term stable switching behavior



Picture similar



**Technical data**

**General data**

Mounting type	Flush
Nominal sensing distance Sn	2 mm
Assured sensing distance Sa	≤ 81 % of Sn
Real sensing distance Sr	± 10 % von Sn
Temperature drift	± 10 % of Sr
Hysteresis	2 ... 20 % of Sr
Output indicator	LED red
Correction factor typ.	Mild steel 100 %, stainless steel 75 %, aluminum 50 %, copper 45 %
Reference object	Fe360 8 x 8 x 1 mm

**Electrical data**

Switching frequency	5 kHz
Voltage supply range +Vs	6 ... 30 VDC
Current consumption max. (no load)	12 mA
Output circuit	PNP break function (NC)
Voltage drop Vd	<2 VDC
Output current	100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

**Mechanical data**

Design	Rectangular
Material (sensing face)	PBT

**Mechanical data**

Housing material	Die-cast zinc nickel plated
Dimension	8 mm
Housing length	16 mm
Connection types	Flylead connector M8 3 pin
Tightening torque max.	0.8 Nm
Weight	18 g

**Ambient conditions**

Operating temperature	-25 ... +75 °C
Storage temperature	-25 ... +75
Protection class	IP 67
Vibration resistance	IEC 60068-2-6:2008 10 g at f = 10 - 2000 Hz, duration 150 min per axis
Shock resistance	IEC 60068-2-27:2009 100 g / 6 ms, 10 jolts per axis and direction

**Safe maximum values**

MTTF	3837 years
Diagnostic coverage (DC)	0 %

**Cable**

Head A: Connection	M8
Head A: Gender	Male
Head A: Angle cable outlet	0°
Head A: Coding	A
Head A: No. of poles	3
Head A: LED	No
Head A: Width across flats	AF9

**Technical data**

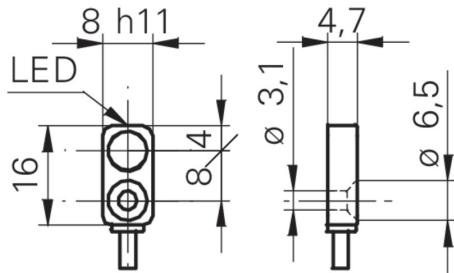
**Cable**

Head A: Tightening torque	0.4 Nm
Head A: Knurled nut material	Brass, surface Ni
Cable length	20 cm
Shielded	No
External sheath: Material	PVC

**Cable**

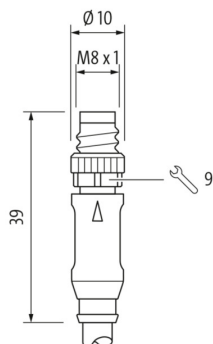
Cable diameter	2.4 mm
Wire cross section	0.08 mm <sup>2</sup>
Insulation: Material	PP
Bending radius (fixed)	3 × outer diameter
Bending radius (mobile)	10 × outer diameter

**Dimension drawing**

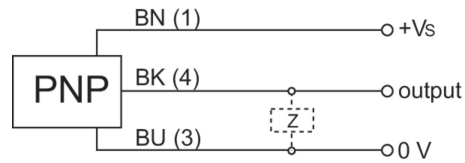


**Variants of integration**

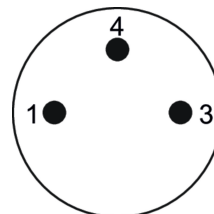
**Dimensions connector**



**Connection diagram**



**Pin assignment**



**Response diagram**

