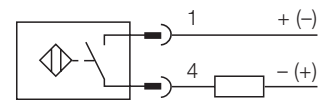


- threaded barrel, M12 x 1
- long version
- Chrome-plated brass
- factor 1 for all metals
- magnetic field immune
- 2-wire DC, 10...65 VDC
- normally open
- connector M12 x 1

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and non-contact detection of metal objects. Due to a patented air-coil systems without ferrite core, Uprox factor 1 sensors have considerable advantages compared to conventional sensors. They detect all metals at the same switching distance and are magnetic field immune

Type	Bi2U-M12E-AD4X-H1144
Ident-No.	4405060
Rated operating distance Sn	2 mm
Mounting condition	flush
Assured switching distance	≤ (0,81 x Sn) mm
Temperature drift	≤ ± 10 %
Hysteresis	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Repeatability	3... 20 %
Ambient temperature	≤ 2 %
	0...+ 70 °C
Operating voltage	10... 65 VDC
Residual ripple	≤ 10 % U _{SS}
DC rated operational current	≤ 100 mA
Residual current	≤ 0.8 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage dip at I _e	≤ 5 V
Output function	2-wire, normally open, 2-wire
Smallest operating current I _m	≥ 3 mA
Switching frequency	≤ 0.01 kHz
Housing	threaded barrel, M12 x 1
Dimensions	62 x 12 mm
Housing material	metal, CuZn, chrome-plated
Material active area	plastic, LCP-GF30
Tightening torque of housing nut	10 Nm
Connection	Connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP68
Display switch state	LED yellow