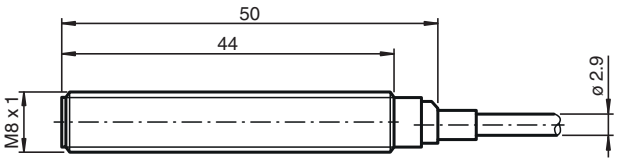
Magnetic field sensor

MMB60-8GH50-E2

- Sensing range 60 mm based on DM60-31-15 magnet
- Stainless steel sensing face
- 3-wire DC

Magnetic field sensor, M8, 60 mm operating distance, normally open (NO), PNP, 2 m cable

Dimensions



Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	60 mm
Installation		flush in non-magnetic metal
Output polarity		DC
Actuating element		Magnet DM 60-31-15
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 5000 Hz
Hysteresis	H	1 ... 10 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2.5 V
Operating current	I_L	≤ 200 mA
Off-state current	I_r	max. 0.5 mA
No-load supply current	I_0	≤ 10 mA
Usage category		DC-12 , DC-13
Time delay before availability	t_v	< 50 ms
Switching state indicator		LED, yellow
Safety-relevant product characteristics		
$MTTF_d$		2890 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		

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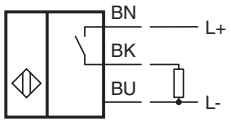
Technical Data

Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
Protection class		III
Rated insulation voltage	U_i	60 V
Rated impulse withstand voltage	U_{imp}	1000 V (1.2/50 µs, 500 Ω, 0.5 J)
UL approval		
Ordinary Location		cULus Listed, General Purpose, Class 2 Power Source, Type 1 enclosure
Maximum permissible ambient temperature		max. 60 °C (max. 140 °F)
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 75 °C (-13 ... 167 °F)
Storage temperature		-25 ... 75 °C (-13 ... 167 °F)
Pollution degree		3
Mechanical specifications		
Connection type		cable
Housing material		Stainless steel 1.4404 / AISI 316L
Degree of protection		IP67
Cable		
Cable diameter		2.9 mm
Material		PUR Cable bushing: PEI
Core cross section		0.14 mm^2
Length	L	2 m
Dimensions		
Length		50 mm
Diameter		8 mm
Tightening torque		≤ 5 Nm
General information		
Scope of delivery		Supplied with 2 nuts , brass

Connection Assignment



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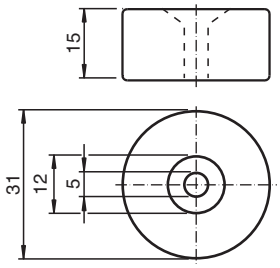
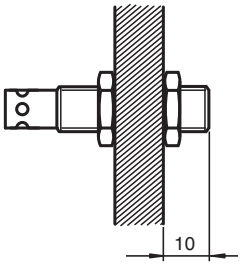
Additional Information

Magnet DM 60-31-15



Mounting

When installed in magnetic materials,
a free space must be left.



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