

Magnetic field sensor

MMB60-12GH50-E2

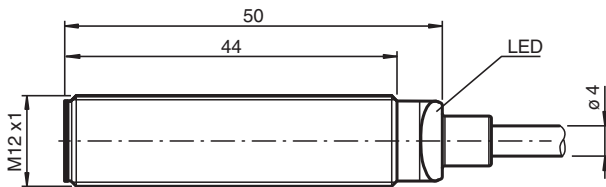


- Sensing range 60 mm based on DM60-31-15 magnet
- Stainless steel sensing face
- 3-wire DC

Magnetic field sensor, M12, 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

Release date: 2026-02-26 Date of issue: 2026-02-26 Filename: 70187728_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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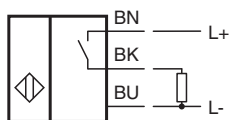
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Technical Data

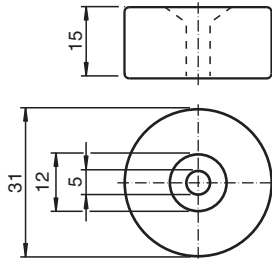
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
Protection class		III
Rated insulation voltage	U_i	60 V
Rated impulse withstand voltage	U_{imp}	1000 V (1.2/50 μ s, 500 Ω , 0.5 J)
UL approval		
Ordinary Location		cULus Listed, General Purpose, Class 2 Power Source, Type 1 enclosure
Maximum permissible ambient temperature		max. 70 °C (max. 158 °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		4 mm
Material		PUR Cable bushing: PEI
Number of cores		3
Core cross section		0.34 mm ²
Length	L	2 m
Dimensions		
Length		50 mm
Diameter		12 mm
Tightening torque		≤ 15 Nm
General information		
Scope of delivery		Supplied with 2 nuts , brass

Connection Assignment



Additional Information

Magnet DM 60-31-15



Mounting

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

