

Magnetic field sensor

MMB60-8GH50-E2-V3

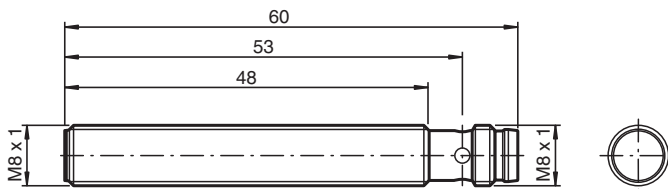


- Sensing range 60 mm based on DM60-31-15 magnet
- Stainless steel sensing face
- 3-wire DC

Magnetic field sensor, M8, 60 mm operating distance, normally open (NO), PNP, M8 plug



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
Usage category		DC-12 , DC-13
Time delay before availability	t_v	< 50 ms
Switching state indicator		Multihole-LED, yellow

Safety-relevant product characteristics

MTTF _d	2890 a
Diagnostic Coverage (DC)	0 %

Compliance with standards and directives

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

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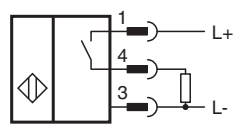
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Technical Data

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		Connector plug	
Housing material		Stainless steel 1.4404 / AISI 316L	
Degree of protection		IP67	
Connector			
Threading		M8 x 1	
Number of pins		3	
Dimensions			
Length		60 mm	
Diameter		8 mm	
Tightening torque		≤ 5 Nm	
General information			
Scope of delivery		Supplied with 2 nuts , brass	

Connection Assignment



Connection Assignment



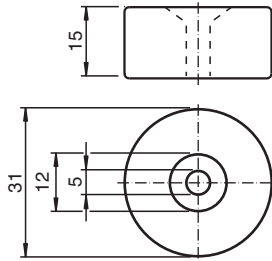
Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

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Additional Information

Magnet DM 60-31-15



Mounting

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

