

# Magnetic field sensor

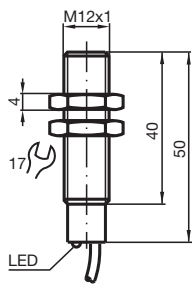
## MC60-12GM50-1N



- 60 mm flush with permanent magnet DM 60-31-15



### Dimensions



### Technical Data

#### General specifications

Switching function		Normally open (NO)
Output type		NAMUR
Rated operating distance	$s_n$	60 mm
Installation		flush in non-magnetic metal
Assured operating distance	$s_a$	10 ... 48.6 mm
Output type		2-wire

#### Nominal ratings

Nominal voltage	$U_o$	8.2 V ( $R_i$ approx. 1 k $\Omega$ )
Switching frequency	$f$	0 ... 5000 Hz
Current consumption		
Magnet detected		$\geq 2.5$ mA
Magnet not detected		$\leq 1$ mA
Switching state indicator		LED, yellow

Release date: 2020-10-19 Date of issue: 2020-10-19 Filename: 183131\_eng.pdf

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

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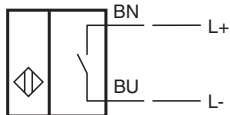
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## Technical Data

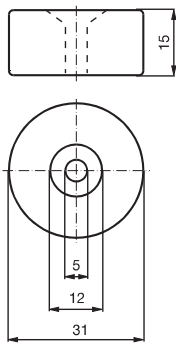
Functional safety related parameters	
MTTF <sub>d</sub>	4382 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %
Compliance with standards and directives	
Standard conformity	
NAMUR	EN 60947-5-6:2000
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates	
ATEX approval	
Equipment protection level Gb	TÜV 01 ATEX 1718
FM approval	
Control drawing	116-0165
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications	
Connection type	cable PVC , 2 m
Core cross-section	0.34 mm <sup>2</sup>
Housing material	stainless steel 1.4404 / AISI 316L
Sensing face	stainless steel 1.4404 / AISI 316L
Degree of protection	IP66 / IP67
General information	
Use in the hazardous area	see instruction manuals

## Connection

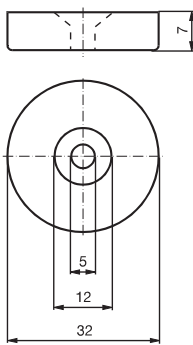


**Additional Information**





**Magnet DM 60-31-15**



**Magnet DM 25-32-07**



**Accessories**

	<b>BF 12</b>	Mounting flange, 12 mm
	<b>EXG-12</b>	Quick mounting bracket with dead stop
	<b>DM 60-31-15</b>	Permanent magnet for magnetic field sensors
	<b>DM 25-32-07</b>	Permanent magnet for magnetic field sensors

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