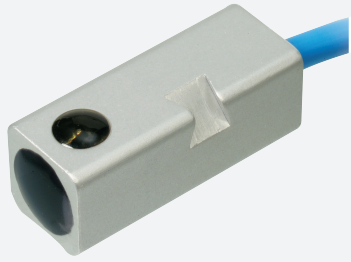


# Magnetic field sensor

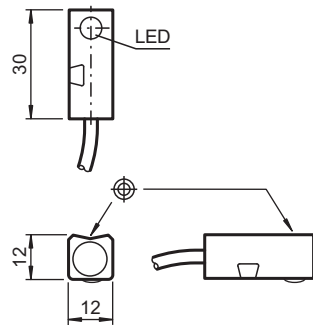
## MB35-F12-1N



- Comfort series
- 35 mm flush



### Dimensions



### Technical Data

#### General specifications

Switching function		Normally open (NO)
Output type		NAMUR
Rated operating distance	$s_n$	35 mm
Installation		flush
Assured operating distance	$s_a$	0 ... 35 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		$\geq 3$ mA
Magnet not detected		$\leq 1$ mA
Switching state indicator		LED, yellow

#### Functional safety related parameters

MTTF <sub>d</sub>		3477 a
Mission Time ( $T_M$ )		20 a

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

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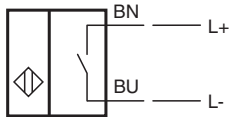
Singapore: +65 6779 9091  
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PEPPERL+FUCHS

## Technical Data

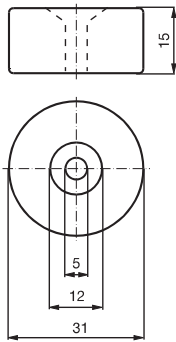
Diagnostic Coverage (DC)	0 %
<b>Compliance with standards and directives</b>	
Standard conformity	
NAMUR	EN 60947-5-6:2000
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012
<b>Approvals and certificates</b>	
IECEX approval	
Equipment protection level Gb	IECEX TUN 20.0007
Equipment protection level Da	IECEX TUN 20.0007
ATEX approval	
Equipment protection level Gb	TÜV 20 ATEX 241336
Equipment protection level Da	TÜV 20 ATEX 241336
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>	
Connection type	cable PVC , 2 m
Core cross-section	0.34 mm <sup>2</sup>
Housing material	anodized aluminum
Sensing face	black plastic
Degree of protection	IP67
<b>General information</b>	
Use in the hazardous area	see instruction manuals

## Connection

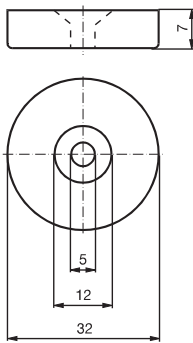


**Additional Information**

**Magnet DM 60-31-15**



**Magnet DM 25-32-07**



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