

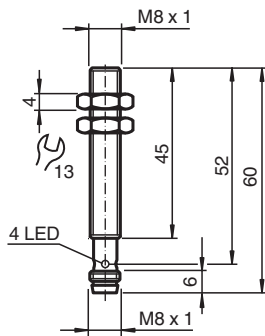
Magnetic field sensor MB60-8GM50-E2-V3



- Sensing range 60 mm based on DM60-31-15 magnet



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
Assured operating distance	s_a	10 ... 48.6 mm
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	0 ... 200 mA
No-load supply current	I_0	≤ 10 mA
Switching state indicator		Multihole-LED, yellow

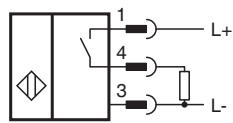
Functional safety related parameters

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Technical Data

Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %
Compliance with standards and directives	
Standard conformity	
Standards	EN IEC 60947-5-2
Approvals and certificates	
Protection class	III
UL approval	cULus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤36 V
Ambient conditions	
Ambient temperature	-25 ... 75 °C (-13 ... 167 °F)
Mechanical specifications	
Connection type	Connector plug
Housing material	Stainless steel 1.4404 / AISI 316L
Sensing face	PBT
Degree of protection	IP67
Connector	
Threading	M8 x 1
Number of pins	3
Dimensions	
Length	60 mm
Diameter	8 mm

Connection



Connection Assignment



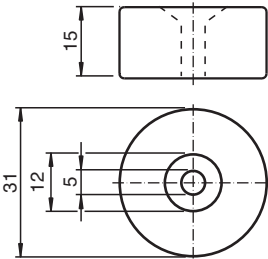
Wire colors in accordance with EN 60947-5-2

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

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Additional Information

Magnet DM 60-31-15



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