



### Model Number

MMB60-12GH50-E2-V1

### Features

- Stainless steel sensing face
- 3-wire DC

### Accessories

#### V1-G-OR2M-POC

Female cordset, M12, 4-pin, TPE cable, welding-bead resistant

#### V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

#### V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

#### DM 60-31-15

Permanent magnet for magnetic field sensors

## Technical Data

### General specifications

Switching function	Normally open (NO)
Output type	PNP
Rated operating distance	$s_n$ 60 mm
Installation	flush
Output polarity	DC
Actuating element	magnetic
Output type	3-wire

### Nominal ratings

Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	5000 Hz
Hysteresis	$H$	1 ... 10 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 2.5$ V DC
Operating current	$I_L$	$\leq 200$ mA
Current consumption		$< 10$ mA

### Indicators/operating means

Operation indicator	4-way LED	Yellow: output
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### Ambient conditions

Ambient temperature	-25 ... 75 °C (-13 ... 167 °F)
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### Mechanical specifications

Connection type	V1 connector (M12 x 1), 4-pin
Housing material	stainless steel V4A
Sensing face	stainless steel V4A
Degree of protection	IP65 / IP67 /

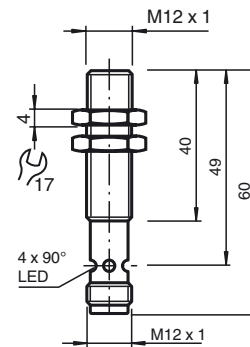
### Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

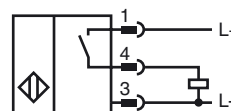
### Approvals and certificates

UL approval	cULus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated $\leq 36$ V

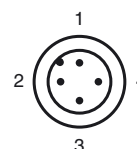
## Dimensions



## Electrical Connection



## Pinout





Wire colors in accordance with EN 60947-5-2

1		BN	(brown)
2		WH	(white)
3		BU	(blue)
4		BK	(black)

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