



Model Number

NMB5-12GM65-E2-C-V1

Features

- 5 mm flush
- Stainless steel sensing face
- Increased operating distance
- Weld Immune

Accessories

BF 12

Mounting flange, 12 mm

AB-12

Mounting aid

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

V1-G-OR2M-POC

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

V1-W-OR2M-POC

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

Technical Data

General specifications

Switching element function	PNP	NO
Rated operating distance	s_n	5 mm
Installation		flush (Requirements: see drawing below)
Output polarity		DC
Assured operating distance	s_a	0 ... 4.05 mm
Actuating element		Ferrous and nonferrous targets
Reduction factor r_{Al}		0.3
Reduction factor r_{Cu}		0.2
Reduction factor r_{304}		0.85
Reduction factor r_{S37}		1

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 5 Hz
Hysteresis	H	3 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2 V
Operating current	I_L	≤ 200 mA
Current consumption		≤ 10 mA
Off-state current	I_r	≤ 10 μ A
No-load supply current	I_0	≤ 15 mA
Operating voltage indicator		LED, green
Switching state indicator		Multihole-LED, yellow
Mag. Field strength, AC fields		250 mT
Mag. Field strength, DC fields		250 mT

Ambient conditions

Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
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Mechanical specifications

Connection type	Connector M12 x 1, 4-pin
Housing material	Xylan coated - Stainless steel 1.4305 / AISI 303
Sensing face	Xylan coated - Stainless steel 1.4305 / AISI 303
Degree of protection	IP67 / IP68 / IP69K - cordset dependent according to cable specification

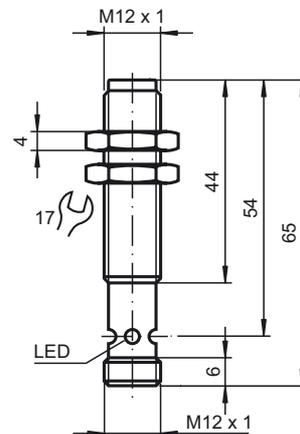
Compliance with standards and directives

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

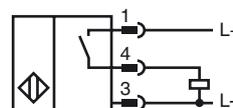
Approvals and certificates

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤ 36 V

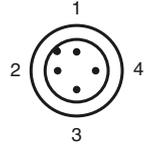
Dimensions



Electrical Connection

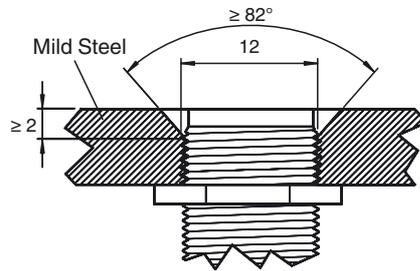


Pinout



Wire colors in accordance with EN 60947-5-2

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



Sensor face is flush with mounting surface.