



Model Number

NMB5-12GM65-E2-V1

Features

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

Accessories

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

AB-12

Mounting aid

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 ... 360 Hz
Hysteresis	H	3 ... 15 typ. 5 %
Reverse polarity protection	reverse polarity protected	
Short-circuit protection	pulsing	
Voltage drop	U_d	≤ 2 V DC
Operating current	I_L	≤ 200 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	LED, yellow	

Functional safety related parameters

MTTF _d	880 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

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	Stainless steel 1.4305 / AISI 303
Sensing face	Stainless steel 1.4305 / AISI 303
Degree of protection	IP67 / IP68 / IP69K - cordset dependent according to cable specification

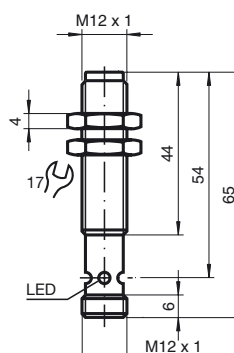
Compliance with standards and directives

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

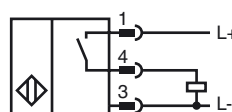
Approvals and certificates

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

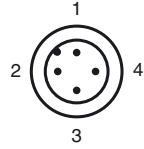
Dimensions



Electrical Connection

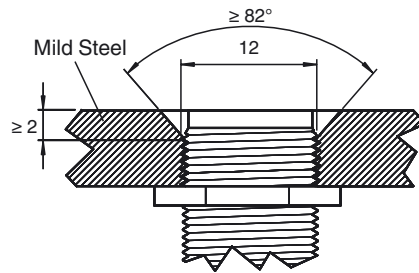


Pinout



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.