



Model Number

NMB5-12GM55-E2

Features

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

Accessories

AB-12
Mounting aid

Technical Data

General specifications

Switching function	Normally open (NO)
Output type	PNP
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_{St37}	1
Output type	3-wire

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 ≤ 10 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	cable PUR , 2 m
Core cross-section	0.34 mm ²
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	Stainless steel 1.4305 / AISI 303
Degree of protection	IP69K
Cable	
Cable diameter	4.8 mm $\pm$ 0.2 mm
Bending radius	> 10 x cable diameter

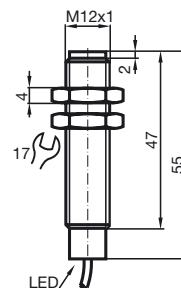
Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

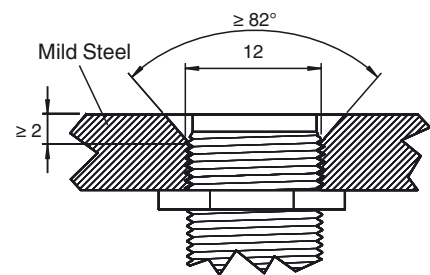
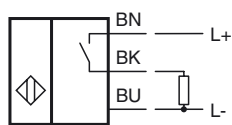
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤ 36 V

Dimensions





Electrical Connection



Sensor face is flush with mounting surface.