



Model Number

NMB5-12GM55-E0

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		NPN
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_o	≤ 10 mA
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow

Functional safety related parameters

MTTF _d	900 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

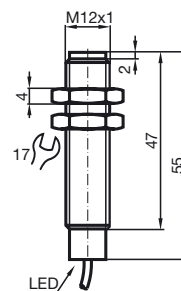
Compliance with standards and directives

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

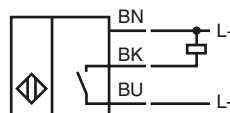
Approvals and certificates

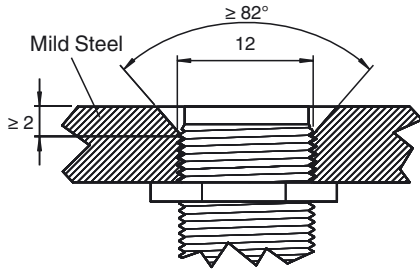
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤ 36 V

Dimensions



Electrical Connection





Sensor face is flush with mounting surface.