



### 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	$U_d$	$\leq 2$ V DC
Operating current	$I_L$	$\leq 200$ mA
Off-state current	$I_r$	$\leq 10$ $\mu$ A
No-load supply current	$I_o$	$\leq 10$ mA
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow

### Functional safety related parameters

MTTF <sub>d</sub>		880 a
Mission Time ( $T_M$ )		20 a
Diagnostic Coverage (DC)		0 %

### Ambient conditions

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

### Mechanical specifications

Connection type		cable PUR , 2 m
Core cross-section		0.34 mm <sup>2</sup>
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

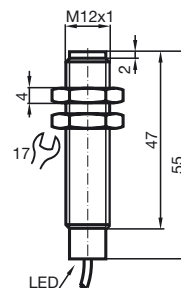
### Compliance with standards and directives

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

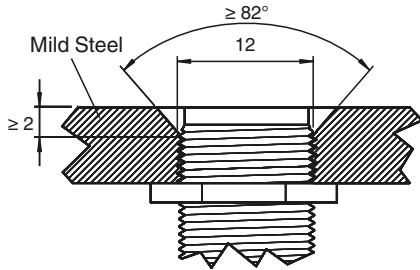
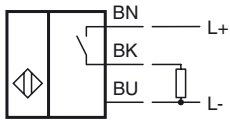
### Approvals and certificates

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

## Dimensions



Electrical Connection



Sensor face is flush with mounting surface.