



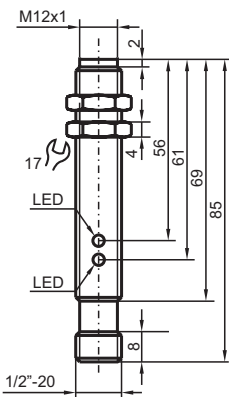
# Inductive sensor

## NMB2-12GM85-US-FE-V12

- Stainless steel sensing face
- Sensing range 2 mm
- 2-wire AC/DC
- Ferrous targets



### Dimensions



### Technical Data

General specifications			
Switching function			Normally open (NO)
Output type			Two-wire
Rated operating distance	$s_n$		2 mm
Installation			flush
Output polarity			AC/DC
Assured operating distance	$s_a$		0 ... 1.62 mm
Actuating element			Ferrous targets
Reduction factor $r_{Al}$			0
Reduction factor $r_{Cu}$			0
Reduction factor $r_{304}$			0.4 - 0.7
Reduction factor $r_{St37}$			1
Reduction factor $r_{Brass}$			0
Output type			2-wire
Nominal ratings			
Operating voltage DC	$U_B$		20 ... 300 V
Operating voltage AC	$U_B$		20 ... 250 V
Switching frequency	$f$		30 Hz
Hysteresis	$H$		3 ... 15 typ. 5 %
Reverse polarity protection			yes
Short-circuit protection			yes
Voltage drop	$U_d$		$\leq 7$ V
Operating current	$I_L$		8 ... 200 mA
Off-state current	$I_r$		$\leq 1.3$ mA
Error indicator			LED, green/yellow (Alternate Flashing) - Short circuit/overload indication

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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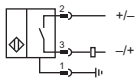
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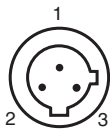
## Technical Data

Indicators/operating means	
Operation indicator	Dual LED Green: power Yellow: output
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	Certified by China Compulsory Certification (CCC)
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications	
Connection type	Connector plug 1/2"-20 UN , 3-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

## Connection




## Connection Assignment



Wire colors

- |   |                   |
|---|-------------------|
| 1 | GN (green)        |
| 2 | RD/BK (red/black) |
| 3 | RD/WH (red/white) |

## Accessories

	<b>AB-12</b>	Mounting aid
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