

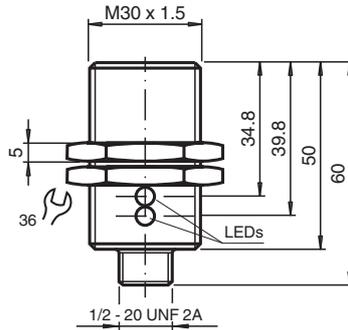
# Inductive sensor

## NBB15-30GM50-US-V12

- 15 mm flush
- 2-wire AC/DC



### Dimensions



### Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	$s_n$	15 mm
Installation		flush
Output polarity		AC/DC
Reduction factor $r_{Al}$		0.5
Reduction factor $r_{Cu}$		0.45
Reduction factor $r_{304}$		0.75
Output type		3-wire
Nominal ratings		
Switching frequency	$f$	30 Hz
Hysteresis	$H$	3 ... 15 % typ. 5 %
Reverse polarity protection		reverse polarity tolerant
Short-circuit protection		yes
Voltage drop	$U_d$	$\leq 8$ V
Rated operating current	$I_e$	4 ... 500 mA AC/DC
Off-state current	$I_r$	$\leq 0.8$ mA
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF <sub>d</sub>		1036 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
Electrical specifications		
Rated operating voltage	$U_e$	20 ... 250 V AC/DC
Compliance with standards and directives		

Release date: 2025-11-20 Date of issue: 2025-11-20 Filename: 198090\_eng.pdf

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

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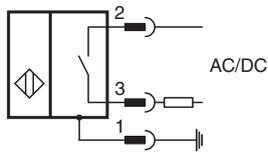
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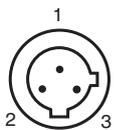
## Technical Data

Standard conformity	
Standards	EN IEC 60947-5-2
<b>Approvals and certificates</b>	
UL approval	cULus Listed Load Type: General Purpose Enclosure Type Rating: Type 1
CSA approval	cCSAus Listed, General Purpose
CCC approval	Certified by China Compulsory Certification (CCC)
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
<b>Mechanical specifications</b>	
Connection type	Connector plug
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Connector	
Threading	1/2"-20 UN
Number of pins	3
Dimensions	
Length	60 mm
Diameter	30 mm

## Connection Assignment



## Connection Assignment



Wire colors

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

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