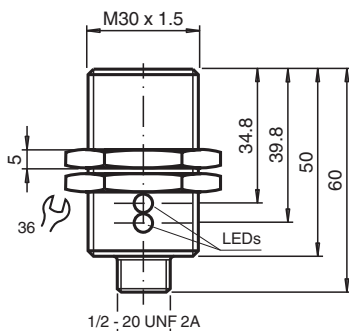


Inductive sensor NBB15-30GM50-US-V12

- Basic series
- 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_{AI}		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	≤ 8 V
Rated operating current	I_e	4 ... 500 mA AC/DC
Off-state current	I_r	≤ 0.8 mA
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow

Functional safety related parameters

MTTF _d		1036 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %

Electrical specifications

Rated operating voltage	U_e	20 ... 250 V AC/DC
-------------------------	-------	--------------------

Release date: 2024-10-17 Date of issue: 2024-10-17 Filename: 198090_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

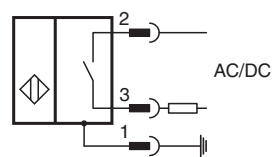
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
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)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
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



Connection Assignment



Wire colors		
1	GN	(green)
2	RD/BK	(red/black)
3	RD/WH	(red/white)