

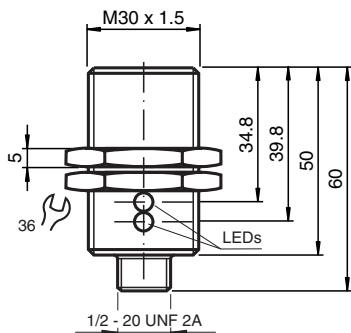
Inductive sensor

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 _{Al}		0.5
Reduction factor r _{Cu}		0.45
Reduction factor r ₃₀₄		0.75
Output type		3-wire
Nominal ratings		
Operating voltage	U _B	20 ... 250 V AC/20 ... 300 V DC
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
Operating current	I _L	4 ... 500 mA AC/DC

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

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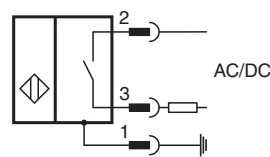
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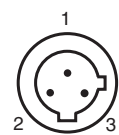
Technical Data

Off-state current	I_r	$\leq 0.8\text{ mA}$
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 %
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		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 1/2"-20 UN , 3-pin
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67

Connection



Connection Assignment



Wire colors

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

Release date: 2020-03-23 Date of issue: 2020-03-30 Filename: 198090_eng.pdf

Accessories

	BF 30	Mounting flange, 30 mm
	EXG-30	Quick mounting bracket with dead stop
	V12-G-YE2M-PVC	Connecting cable, 1/2" - 20 UNF, 3-pin, PVC cable