



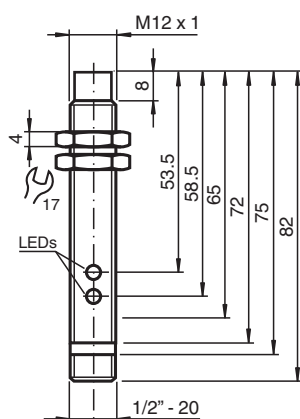
Inductive sensor

NBN8-12GM65-US-V12

- 8 mm non-flush
- 2-wire AC/DC



Dimensions



Technical Data

General specifications

Switching function		Normally open (NO)
Output type		Two-wire
Rated operating distance	S_n	8 mm
Installation		non-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		2-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	8 ... 200 mA AC/DC

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

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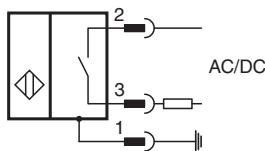
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PEPPERL+FUCHS

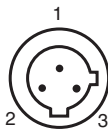
Technical Data

Off-state current	I_r	$\leq 0.8\text{ mA}$
Operating voltage indicator		LED, green
Switching state indicator		LED, yellow
Electrical specifications		
Rated operating voltage	U_e	20 ... 250 V AC/DC
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)
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
Mass		39 g
Dimensions		
Length		82 mm
Diameter		12 mm
General information		
Scope of delivery		2 self locking nuts in scope of delivery

Connection



Connection Assignment



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Connection Assignment

Wire colors

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

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