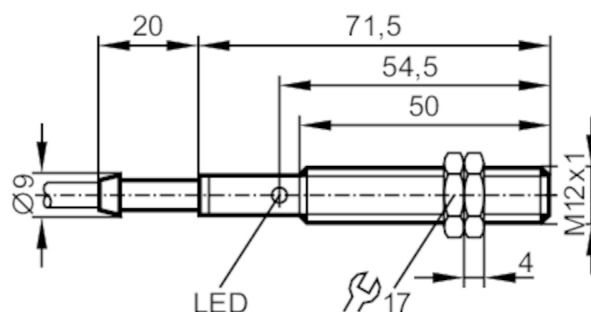




Inductive sensor

IFA2002-ABOW



Product characteristics

Output function	normally open
Sensing range [mm]	2
Housing	Threaded type
Dimensions [mm]	M12 x 1 / L = 71.5

Electrical data

Frequency AC [Hz]	47...63
Operating voltage [V]	20...250 AC
Protection class	II
Reverse polarity protection	no

Outputs

Output function	normally open
Max. voltage drop switching output AC [V]	8.5
Minimum load current [mA]	8
Max. leakage current [mA]	2
Permanent current rating of switching output AC [mA]	200; (250 (...50 °C))
Short-time current rating of switching output [mA]	900; (20 ms / 0,5 Hz)
Switching frequency AC [Hz]	25
Short-circuit proof	no
Overload protection	no

Monitoring range

Sensing range [mm]	2
Real sensing range Sr [mm]	2 ± 10 %
Operating distance [mm]	0...1.6

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

IF0005



Inductive sensor

IFA2002-ABOW

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 67

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	932

Mechanical data

Weight	[g]	115
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M12 x 1 / L = 71.5
Thread designation		M12 x 1
Material		brass white bronze coated; sensing face: PBT natural; Conduit attachment: TPE-E; LED window: PBT natural; lock nuts: brass white bronze coated
Tightening torque	[Nm]	A = 4 mm: 3,5 Nm; B: 5 Nm

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Electrical connection

Required protection	miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
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Accessories

Items supplied	lock nuts: 2
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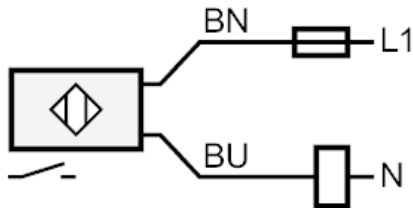
Remarks

Remarks	Recommendation: check the unit for reliable function after a short circuit.
Pack quantity	1 pcs.

Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm²

Connection



Note miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting

Core colors :

BN = brown
BU = blue

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Inductive sensor

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Diagrams and graphs

Installation

