

Inductive sensor

IFA2002-BBOW/V4A/20m

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Product characteristics

Output function		normally closed
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...140 AC
Protection class		II
Reverse polarity protection		no

Outputs

Output function		normally closed
Max. voltage drop switching output AC	[V]	8.5
Minimum load current	[mA]	8
Max. leakage current	[mA]	3 (250 V AC) / 1.5 (120 V AC)
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 protection		no
Overload protection		no

Detection zone

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 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10

Operating conditions

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

EMC	EN 60947-5-2	
	EN 55011	class B

Mechanical data

Housing	threaded type
Mounting	flush mountable
Dimensions [mm]	M12 x 1 / L = 71.5
Thread designation	M12 x 1
Materials	stainless steel (316Ti/1.4571); PBT

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 20 m, PVC; 2 x 0.5 mm²

Connection



BN = Core colours :
brown
BU = blue