



Inductive sensor

ID-2050-ABOA/20m

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Product characteristics

Output function		normally open
Sensing range	[mm]	50
Housing		rectangular
Dimensions	[mm]	120 x 80 x 30

Electrical data

Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no

Outputs

Output function		normally open
Max. voltage drop switching output DC	[V]	5
Max. voltage drop switching output AC	[V]	5.5
Minimum load current	[mA]	5
Max. leakage current	[mA]	2.5 (250 V AC) / 1.3 (110 V AC) / 0.8 (24 V DC)
Permanent current rating of switching output AC	[mA]	250; (350 (...50 °C))
Permanent current rating of switching output DC	[mA]	100
Short-time current rating of switching output	[mA]	2200; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	35

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Short-circuit proof	no
Overload protection	no
Monitoring range	
Sensing range [mm]	50
Sensing range adjustable	yes
Factory setting sensing range [mm]	50
Real sensing range Sr [mm]	50 ± 10 %
Operating distance [mm]	0...40.5
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
Operating conditions	
Ambient temperature [°C]	-25...80
Protection	IP 65
Tests / approvals	
EMC	EN 60947-5-2
	EN 55011 class B
MTTF [years]	512
Mechanical data	
Housing	rectangular
Mounting	non-flush mountable
Dimensions [mm]	120 x 80 x 30
Material	PPE modified
Displays / operating elements	
Display	Switching status 1 x LED, yellow
Electrical connection	
Required protection	miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
Accessories	
Items supplied	screwdriver: 1
Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit.
Pack quantity	1 pcs.

ID0020



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Electrical connection

Cable: 20 m, PVC; 2 x 0.5 mm²

Connection



Note miniature fuse to IEC60127-2 sheet 1 $\leq$ 2 A fast acting

Core colors :

BN =

brown

BU =

blue