



Inductive sensor

IA-3010-BPOG/PPU

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Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	10
Housing	tubular
Dimensions [mm]	Ø 20

Electrical data

Operating voltage [V]	10...55 DC
Current consumption [mA]	7; (24 V)
Protection class	II
Reverse polarity protection	no

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	1
Permanent current rating of switching output DC [mA]	400
Switching frequency DC [Hz]	100
Short-circuit protection	no
Overload protection	no

Monitoring range

Sensing range [mm]	10
Real sensing range Sr [mm]	10 ± 10 %
Operating distance [mm]	0...8.1



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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 67	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
Mechanical data			
Housing		tubular	
Mounting		non-flush mountable	
Dimensions		[mm]	Ø 20
Material		PBT	
Displays / operating elements			
Display		Switching status	1 x LED, red
Accessories			
Items supplied		Mounting clamp: 1	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			
Cable: 2 m, PUR / PVC; 3 x 0.5 mm²			
Connection			



Core colors :

BN = brown

BU = blue

BK = black