



Inductive sensor

IW-3005-BPOG/PPU

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Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	5
Housing	rectangular
Dimensions [mm]	60 x 36 x 10

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (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]	250
Switching frequency DC [Hz]	200
Short-circuit protection	no
Overload protection	no

Detection zone

Sensing range [mm]	5
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Real sensing range S_r	[mm]	$5 \pm 10 \%$
Operating distance	[mm]	0...4.05

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis	[% of S_r]	1...15
Switch point drift	[% of S_r]	-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		rectangular
Mounting		flush mountable
Dimensions	[mm]	60 x 36 x 10
Materials		PBT

Displays / operating elements

Display	switching status	1 x LED, yellow
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Remarks

Pack quantity		1 pcs.
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Electrical connection

Cable: 2 m, PUR / PVC; 3 x 0.14 mm²

Connection



	Core colours :
BN =	brown
BU =	blue
BK =	black