

Inductive sensor

ILA3002-BPKG/OBEN/4M/PH RT



1 Sensing face



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	2
Housing	rectangular
Dimensions [mm]	40 x 8 x 8

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (24 V)
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	2000
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	2
Real sensing range Sr [mm]	2 ± 10 %

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Operating distance	[mm]	0...1.6
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Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...70
Protection		IP 65

Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	EN 55011 emission	class B
MTTF	[years]	3449
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	File number UL	E174191

Mechanical data

Weight	[g]	70.5
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	40 x 8 x 8
Materials		brass white bronze coated; sensing face: LCP
Tightening torque	[Nm]	1; (insertion depth: > 5 mm)

Displays / operating elements

Display	switching status	1 x LED, red
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Remarks

Pack quantity		1 pcs.
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Electrical connection

Cable: 4 m, PUR; 3 x 0.14 mm²

Connection



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