



Inductive sensor

ILA3002-BPKG/OBEN/PH RT



1 Sensing face



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 S_r [mm]	$2 \pm 10 \%$
Operating distance [mm]	0...1.6

Accuracy / deviations

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

IL5002



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Operating conditions

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

Tests / approvals

EMC		EN 60947-5-2	
MTTF	[years]	3449	
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		voltage supply	Limited Voltage/Current
		File number UL	E174191

Mechanical data

Weight	[g]	45
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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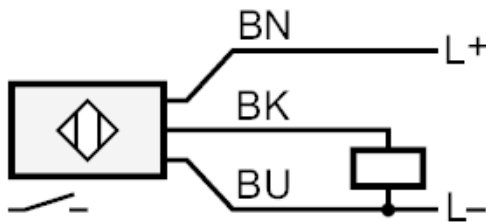
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PUR; 3 x 0.14 mm²

Connection



Core colours :

BN =	brown
BU =	blue
BK =	black