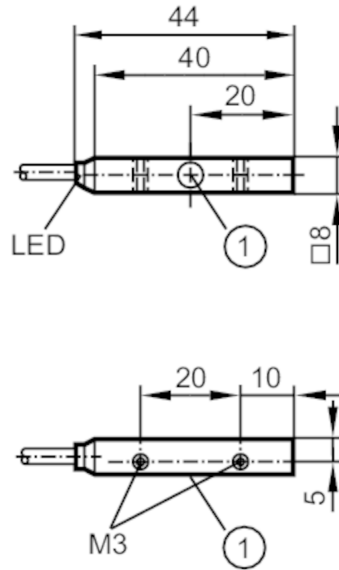


# IL5003



## Inductive sensor

ILA3002-BPKG/MITTIG/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
<b>Accuracy / deviations</b>		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10
<b>Operating conditions</b>		
Ambient temperature	[°C]	-25...70
Protection		IP 65
<b>Tests / approvals</b>		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	3449
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	File number UL	E174191
<b>Mechanical data</b>		
Weight	[g]	42.3
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)
<b>Displays / operating elements</b>		
Display	switching status	1 x LED, red
<b>Remarks</b>		
Pack quantity		1 pcs.

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### Electrical connection

Cable: 2 m, PUR / PVC; 3 x 0.14 mm<sup>2</sup>

### Connection



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