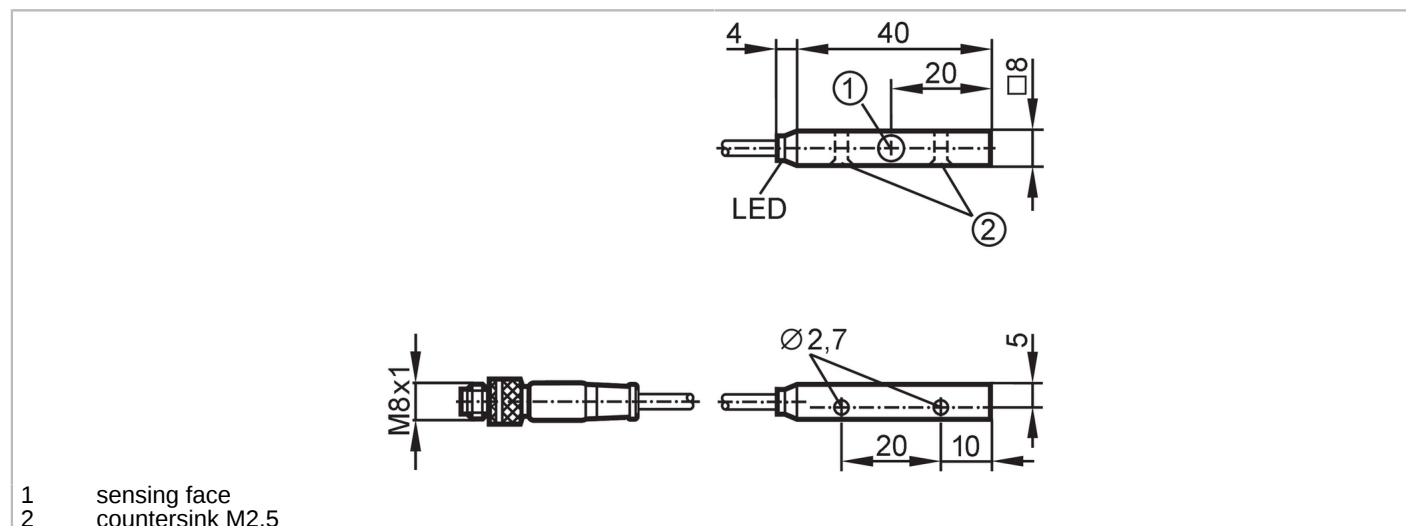


IL5025



Inductive sensor

ILA3002-BPKG/MITTIG/0,31M/ASRT



- 1 sensing face
2 countersink M2.5



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
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	yes (non-latching)
Overload protection	yes

Monitoring range

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 / aluminum: 0.4 / copper: 0.3
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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 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]	23.4
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	40 x 8 x 8
Material		housing: brass white bronze coated; sensing face: LCP

Displays / operating elements

Display	Switching status	1 x LED, red
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Accessories

Items supplied	countersunk screws: 2 x (M2,5 x 12 mm)
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Remarks

Remarks	limited voltage requirements to UL 508: electrically isolated operating voltage protected by an overcurrent device
Pack quantity	1 pcs.

Electrical connection - plug

Cable: 0.31 m, PUR / PVC

Connector: 1 x M8; coding: A; Contacts: 3; Locking: Knurled nut, rotatable



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Connection

