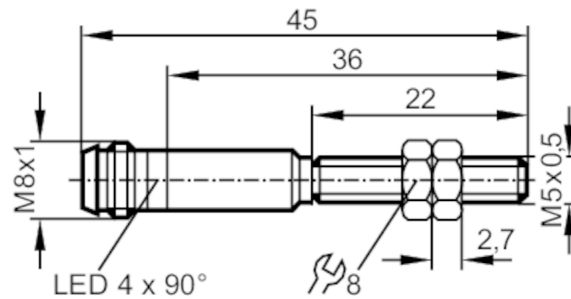


IY5036



Inductive sensor

IYB30,8-BPKG/V2A/AS-514 RT



Product characteristics

Electrical design		PNP
Output function		normally open
Sensing range	[mm]	0.8
Housing		threaded type
Dimensions	[mm]	M5 x 0.5 / L = 45

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]	100
Switching frequency DC	[Hz]	2000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Sensing range	[mm]	0.8
Real sensing range Sr	[mm]	0.8 ± 10 %
Operating distance	[mm]	0...0.65

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

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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	class B
MTTF	[years]	1999
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191

Mechanical data

Weight	[g]	10.8
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M5 x 0.5 / L = 45
Thread designation		M5 x 0.5
Materials		stainless steel (1.4305 / 303); LED window: PA; sensing face: POM
Tightening torque	[Nm]	2

Displays / operating elements

Display	switching status	4 x 90° LED, red
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Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M8; coding: A



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Connection

