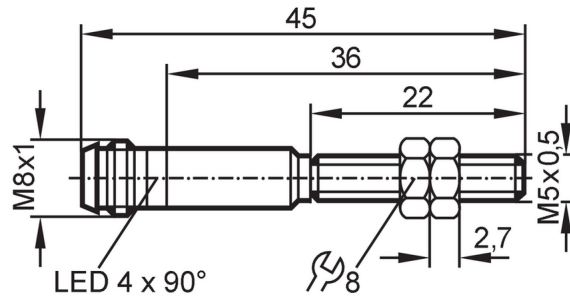


# IY5036



## 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 $S_r$	[mm]	$0.8 \pm 10\%$
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 $S_r$ ]	1...15
Switch point drift	[% of $S_r$ ]	-10...10

### Operating conditions

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

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Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	power 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 (303/1.4305); sensing face: POM

Displays / operating elements		
Display	switching status	4 x 90° LED, red

Accessories		
Items supplied		lock nuts: 2

Remarks		
Pack quantity		1 pcs.

### Electrical connection - plug

Connector: 1 x M8; coding: A; Contacts: 3



### Connection

