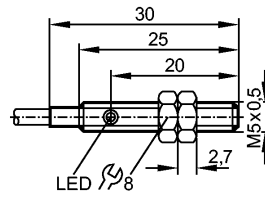


**IY5046**

IYB30.8-BPKG/V2A/ RT

Inductive sensors



**Product characteristics**

Inductive sensor
Metal thread M5 x 0.5
Cable
Sensing range 0.8 mm; [f] flush mountable

**Electrical data**

Electrical design	DC PNP
Operating voltage [V]	10...36 DC; "supply class 2" to cULus.
Current consumption [mA]	15 (24 V)
Protection class	III
Reverse polarity protection	yes

**Outputs**

Output function	normally open
Voltage drop [V]	< 2.5
Current rating [mA]	100
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	2000

**Range**

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

**Accuracy / deviations**

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.5 / Al approx. 0.4 / Cu approx. 0.3
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

**Environment**

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

**Tests / approvals**

EMC	EN 60947-5-2 EN 55011: class B
MTTF [Years]	953

**Mechanical data**

Mounting	flush mountable
Housing materials	stainless steel (303S22); POM (polyoxymethylene)
Weight [kg]	0.042

## IY5046

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### Displays / operating elements

Output status indication	LED	Red
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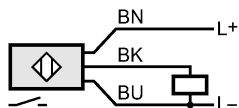
### Electrical connection

Connection	PVC cable / 2 m; 3 x 0.14 mm <sup>2</sup>
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### Wiring

Core colours

- BK black
- BN brown
- BU blue



### Accessories

Accessories (included)	2 lock nuts
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### Remarks

Pack quantity	[piece]	1
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