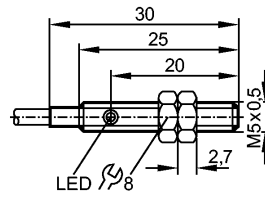


IY5038

IYB30.8-BPKG/V2A/6M

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
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		yes (non-latching)
Overload protection		yes
Switching frequency [Hz]		2000

Monitoring 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. 0.4 / aluminium approx. 0.3 / copper approx. 0.2
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); active face: POM (polyoxymethylene)
Weight [kg]		0.126

IY5038

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Inductive sensors

Displays / operating elements

Output status indication	LED	yellow
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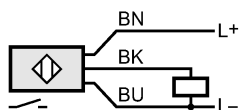
Electrical connection

Connection	PVC cable / 6 m; 3 x 0.14 mm ²
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Wiring

Core colors

- BN brown
- BU blue
- BK black



Accessories

Accessories (included)	2 lock nuts
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Remarks

Pack quantity	[piece]	1
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