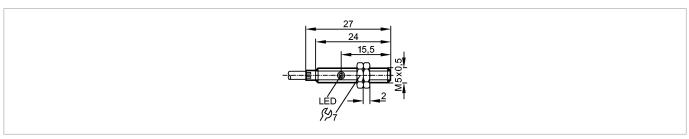
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IY5049

IYB31.5-BPKG/ZH Inductive sensors





Housing materials

LISTED		
Product characteristics		
Inductive sensor		
Metal thread M5 x 0.5		
Cable		
Sensing range 1.5 mm; [nf] non-flush mountable		
Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	1030 DC
Current consumption	[mA]	10 (24 V)
Reverse polarity protection	n	yes
Outputs		
Output function		normally open
Voltage drop	[V]	< 3
Current rating	[mA]	100
Short-circuit protection		pulsed
Overload protection		yes
Switching frequency	[Hz]	1800
Range		
Sensing range	[mm]	1.5
Real sensing range (Sr)	[mm]	1.5 ± 10 %
Operating distance	[mm]	01.2
Accuracy / deviations		
Correction factors		mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / Al approx. 0.3 / Cu approx. 0.2
Hysteresis	[% of Sr]	< 15
Switch-point drift	[% of Sr]	-1010
Environment		
Ambient temperature	[°C]	-2570
Protection		IP 67
Tests / approvals		
EMC		EN 60947-5-2 EN 55011: class B
MTTF	[Years]	835
Mechanical data		
Mounting		non-flush mountable

housing: stainless steel; active face: POM (polyoxymethylene)

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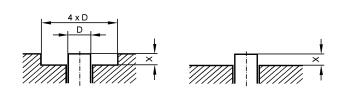
IY5049

IYB31.5-BPKG/ZH



Inductive sensors

Installation



If Sr varies by < 10 %

the following free space must be maintained: X > 1.5 mm for ferromagnetic materials X > 3.0 mm for other metals

Weight [kg] 0.054

Displays / operating elements

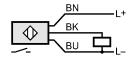
Output status indication LED yellow

Electrical connection

Connection PUR cable / 2 m; 3 x 0.14 mm²

Wiring

Core colours BK black BN brown BU blue



Accessories

Accessories (included) 2 lock nuts

Remarks

Pack quantity [piece] 1

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