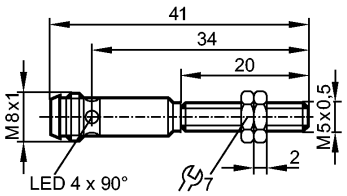
efector100

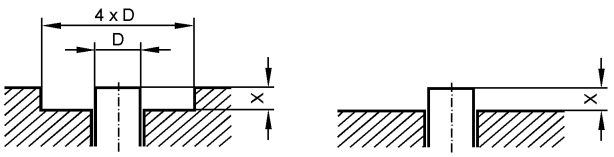
IY5048

IYB31.5-BPKG/AS-514-TPS

Inductive sensors



Product characteristics		
Inductive sensor		
Metal thread M5 x 0.5		
Connector		
Sensing range 1.5 mm; [nf] non-flush mountable		
Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10 (24 V)
Reverse polarity protection		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]	0...1.2
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]	-10...10
Environment		
Ambient temperature	[°C]	-25...70
Protection		IP 67
Tests / approvals		
EMC		EN 60947-5-2 EN 55011: class B
MTTF	[Years]	835
Mechanical data		
Mounting		non-flush mountable
Housing materials		housing: stainless steel; active face: POM (polyoxymethylene)

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]	0.016

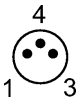
Displays / operating elements

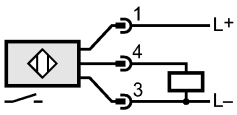
Output status indication	LED	red (4 x 90°)

Electrical connection

Connection		M8 connector

Wiring





Accessories

Accessories (included)		2 lock nuts

Remarks

Pack quantity	[piece]	1