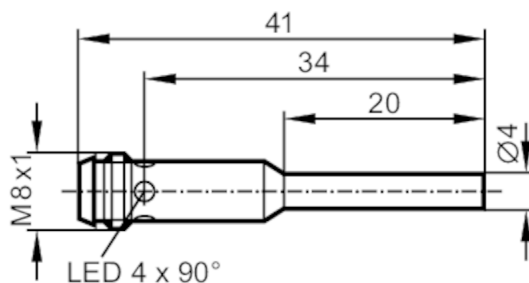


IZ5046



Inductive sensor

IZB31,5-BPKG/AS-514-TPS



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	1.5
Housing	tubular
Dimensions [mm]	Ø 4 / L = 41

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	10; (24 V)
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	3
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	1800
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	1.5
Real sensing range Sr [mm]	1.5 ± 10 %
Operating distance [mm]	0...1.2

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of Sr]	< 15
Switch-point drift [% of Sr]	-10...10

Operating conditions

Ambient temperature [°C]	-25...80
Protection	IP 67



Inductive sensor

IZB31,5-BPKG/AS-514-TPS

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]		835
UL approval	Ta	0...40 °C
	voltage supply	Class 2
	File number UL	E174191

Mechanical data

Weight [g]	19
Housing	tubular
Mounting	non-flush mountable
Dimensions [mm]	Ø 4 / L = 41
Material	housing: stainless steel; sensing face: POM

Displays / operating elements

Display	Switching status	4 x 90° LED, red
---------	------------------	------------------

Accessories

Items supplied	Mounting clamp: 1
----------------	-------------------

Remarks

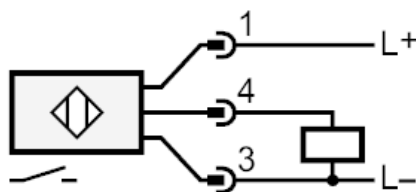
Pack quantity	1 pcs.
---------------	--------

Electrical connection - plug

Connector: 1 x M8; coding: A



Connection



IZ5046

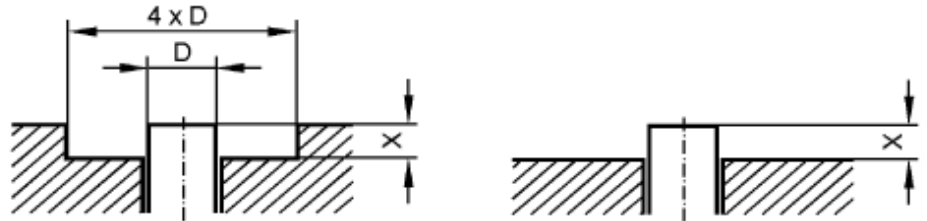


Inductive sensor

IZB31,5-BPKG/AS-514-TPS

Diagrams and graphs

Installation



If S_r varies by $< 10\%$ the following free space must be maintained ferromagnetic materials $X > 1.5\text{ mm}$ other metals $X > 3.0\text{ mm}$