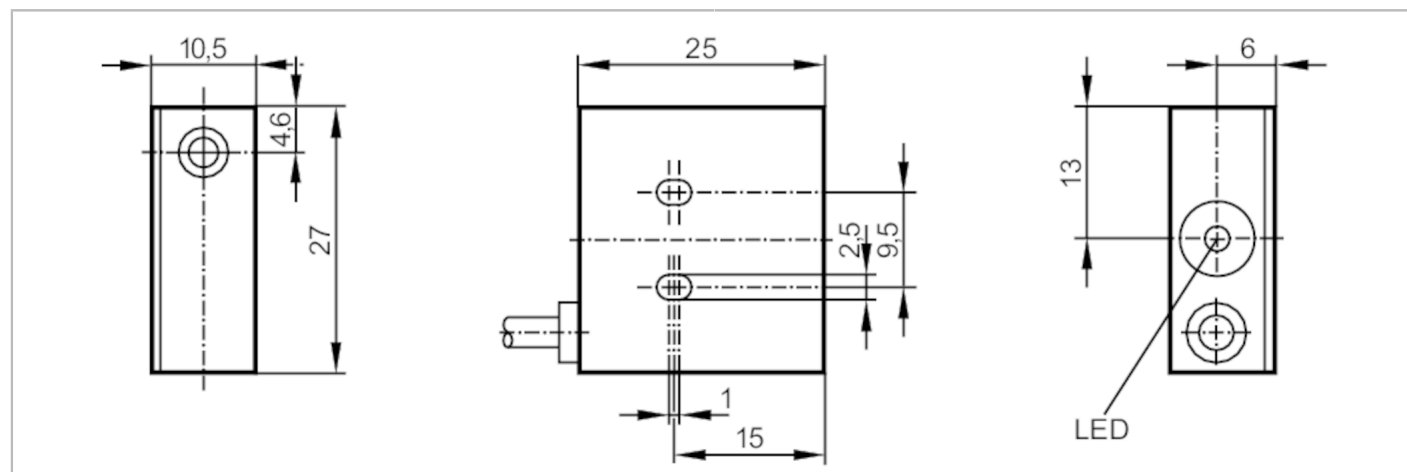




Inductive sensor

IJ-2002-FRKG/0,15M



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	2
Housing	rectangular
Dimensions [mm]	27 x 10.5 x 25

Electrical data

Operating voltage [V]	10...36 DC
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	4.6
Minimum load current [mA]	4
Max. leakage current [mA]	0.6
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	2000
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	2
Real sensing range S_r [mm]	$2 \pm 10\%$
Operating distance [mm]	0...1.6

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
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Inductive sensor

IJ-2002-FRKG/0,15M

Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10

Operating conditions

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

Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	0,5 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B

MTTF	[years]	2269
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Mechanical data

Weight	[g]	21.5
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	27 x 10.5 x 25
Materials		PPE; PC; TPE-E

Displays / operating elements

Display	switching status	1 x LED, yellow
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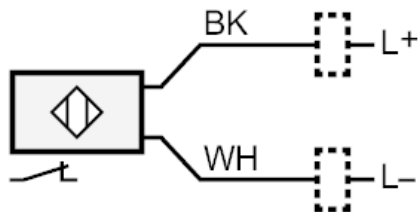
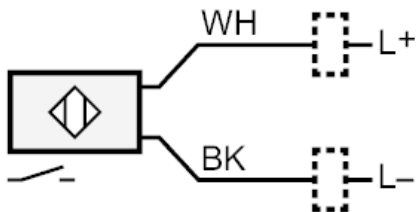
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 0.15 m, PUR, Ø 3.5 mm; 2 x 0.14 mm²

Connection



BK = Core colours :
WH = black
white