



Inductive sensor

IEB21,5-ARKG/0,5M



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	1.5
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 37

Electrical data

Operating voltage [V]	10...30 DC
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open
Max. voltage drop switching output DC [V]	2.8
Minimum load current [mA]	2
Max. leakage current [mA]	0.4
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	1000
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	1.5
Real sensing range S_r [mm]	$1.5 \pm 10\%$
Operating distance [mm]	0...1.2

Accuracy / deviations

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

Operating conditions

Ambient temperature [°C]	0...60
Protection	IP 67



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Tests / approvals

EMC	EN 60947-5-2	
MTTF [years]		3004
UL approval	Ta	0...60 °C
	Enclosure type	Type 1
	power supply	Class 2
	File number UL	E174191

Mechanical data

Weight [g]	25
Housing	threaded type
Mounting	flush mountable
Dimensions [mm]	M8 x 1 / L = 37
Thread designation	M8 x 1
Materials	brass white bronze coated; sensing face: LCP
Tightening torque [Nm]	A = 5 mm: 1,5 Nm; B: 2 Nm

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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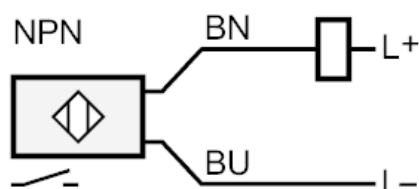
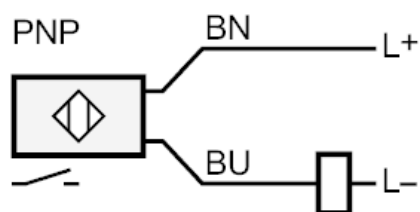
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 0.5 m, PPU; 2 x 0.14 mm²

Connection



Core colours :
 BN = brown
 BU = blue

IE5373



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Diagrams and graphs

Installation

