

IE5454



Inductive sensor

IEB21,5-ARKG/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
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 S_r]	1...15
Switch point drift [% of S_r]	-10...10

Operating conditions

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

Tests / approvals

EMC	EN 60947-5-2
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Mechanical data		
Weight	[g]	88.2
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

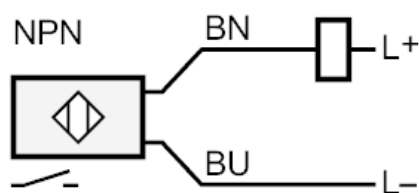
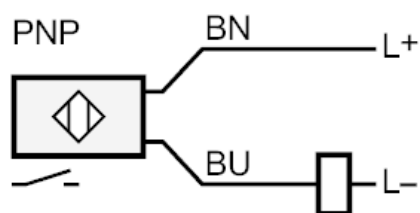
Displays / operating elements		
Display	switching status	1 x LED, yellow

Accessories	
Items supplied	lock nuts: 2

Remarks	
Pack quantity	1 pcs.

Electrical connection	
Cable: 5 m, PPU; 2 x 0.14 mm ²	

Connection	
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BN = Core colours :
brown
BU = blue