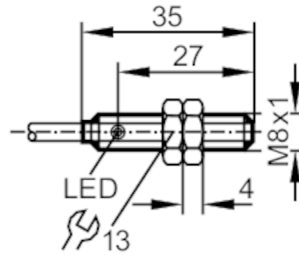


IE5207



Inductive sensor

IEB2001-AROG



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	1
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 35

Electrical data

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

Outputs

Electrical design	PNP/NPN
Output function	normally open
Max. voltage drop switching output DC [V]	3.5
Minimum load current [mA]	4
Max. leakage current [mA]	0.8
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	1300
Short-circuit protection	no
Overload protection	no

Detection zone

Sensing range [mm]	1
Real sensing range S_r [mm]	$1 \pm 10\%$
Operating distance [mm]	0...0.81

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis [% of S_r]	1...15
Switch point drift [% of S_r]	-10...10

Operating conditions

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

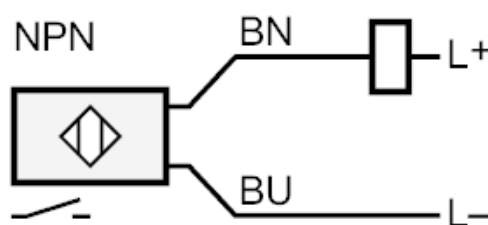
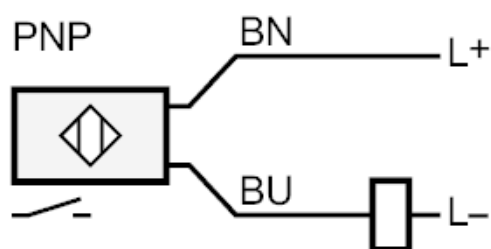
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Tests / approvals			
EMC		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	3 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	3 V
MTTF	[years]	4603	
Mechanical data			
Weight	[g]	47.3	
Housing		threaded type	
Mounting		flush mountable	
Dimensions	[mm]	M8 x 1 / L = 35	
Thread designation		M8 x 1	
Materials		brass white bronze coated; PBT	
Tightening torque	[Nm]	A = 5 mm: 1 Nm; B: 4 Nm	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Accessories			
Accessories (supplied)		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			
Cable: 2 m, PVC; 2 x 0.14 mm ²			
Connection			



Core colours :

BN = brown

BU = blue

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Diagrams and graphs

Installation

