

Inductive sensor

IEC2002-AROG



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	2
Housing	Threaded type
Dimensions [mm]	M8 x 1 / L = 35

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]	3.5
Minimum load current [mA]	4
Max. leakage current [mA]	0.8
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	2000
Short-circuit protection	no
Overload protection	no

Monitoring range

Sensing range [mm]	2
Real sensing range S_r [mm]	$2 \pm 10 \%$
Operating distance [mm]	0...1.62

Accuracy / deviations

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

Operating conditions

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

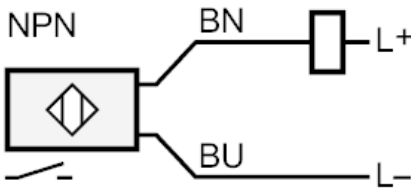
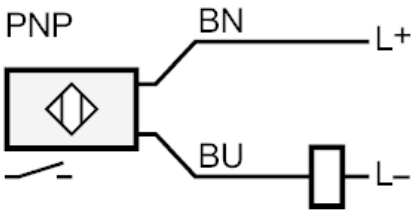
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Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV DC / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	EN 55011	class B
MTTF	[years]	4603
Mechanical data		
Weight	[g]	38.5
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M8 x 1 / L = 35
Thread designation		M8 x 1
Material		PBT
Tightening torque	[Nm]	0.25
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
		rubber washers: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 2 m, PVC; 2 x 0.14 mm ²		
Connection		



BN = Core colors : brown
BU = blue