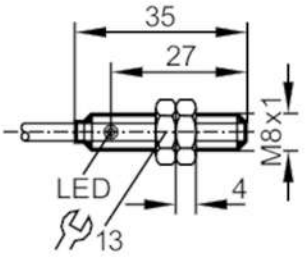
IE5193

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
Detection zone		
Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.62
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 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

IE5193

Inductive sensor

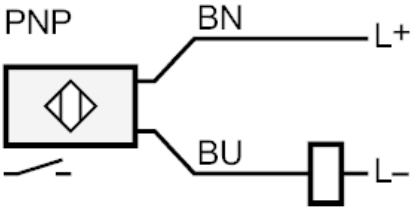
IEC2002-AROG

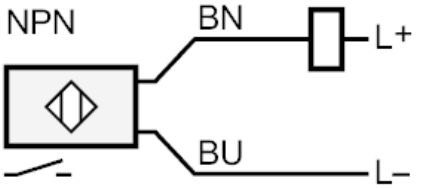
Tests / approvals			
EMC		EN 61000-4-2 ESD	4 kV DC / 8 kV AD
		EN 61000-4-3 HF radiated	3 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	3 V
		EN 55011	class B
MTTF	[years]	4603	
Mechanical data			
Weight	[g]	38.5	
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M8 x 1 / L = 35	
Thread designation		M8 x 1	
Materials		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 mm²

Connection





Core colours :
BN = brown
BU = blue