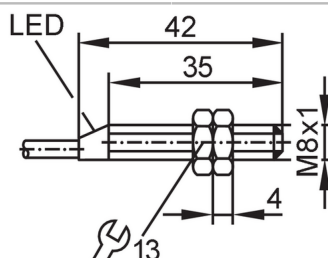




Inductive sensor

IEB2002BARKG/2M/PUR RT



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	2
Housing	Threaded type
Dimensions [mm]	M8 x 1 / L = 42

Electrical data

Operating voltage [V]	10...55 DC
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open
Max. voltage drop switching output DC [V]	4.5
Minimum load current [mA]	5
Max. leakage current [mA]	0.6
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	1000
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

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: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of S_r]	3...15
Switch-point drift [% of S_r]	-10...10

Operating conditions

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

IE9203



Inductive sensor

IEB2002BARKG/2M/PUR RT

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	2460

Mechanical data

Weight	[g]	45.4
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 42
Thread designation		M8 x 1
Material		housing: brass white bronze coated

Displays / operating elements

Display	Switching status	1 x LED, red
---------	------------------	--------------

Accessories

Items supplied	lock nuts: 2
----------------	--------------

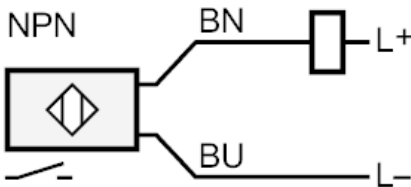
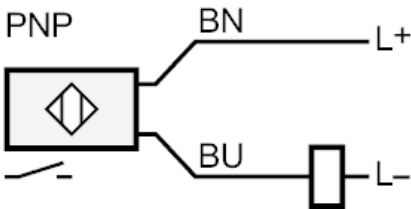
Remarks

Pack quantity	1 pcs.
---------------	--------

Electrical connection

Cable: 2 m, PUR; 2 x 0.14 mm²

Connection



BN = Core colors : brown
BU = blue