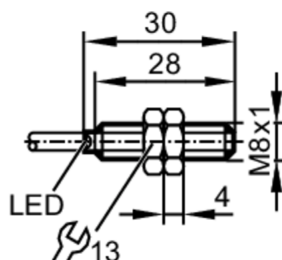




Inductive sensor

IEB3002BBPKG/V4A/ZH

customer-specific



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	2
Housing	Threaded type
Dimensions [mm]	M8 x 1 / L = 30

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 15
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	1500
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 Sr]	1...15
Switch-point drift [% of Sr]	-10...10

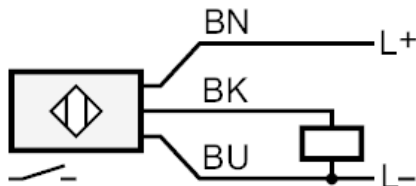
IE5453



Inductive sensor

IEB3002BBPKG/V4A/ZH

Operating conditions		
Ambient temperature	[°C]	10...85
Protection		IP 67
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
Mechanical data		
Weight	[g]	47.6
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 30
Thread designation		M8 x 1
Material		housing: stainless steel (1.4404 / 316L); sensing face: LCP
Tightening torque	[Nm]	A = 5 mm: 2 Nm; B: 3 Nm
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Notes		customer-specific
Pack quantity		1 pcs.
Electrical connection		
Cable: 2 m, PUR; 3 x 0.14 mm²		
Connection		



	Core colors
BK	black
BN	brown
BU	blue

IE5453

Inductive sensor

IEB3002BBPKG/V4A/ZH



Diagrams and graphs

Installation

