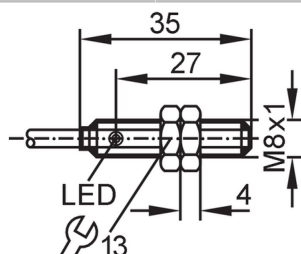




Inductive sensor

IEB3001-ANKG



Product characteristics

Electrical design	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
Current consumption [mA]	15; (24 V)
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	NPN
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	750
Notes on switching frequency [Hz]	1000 nb
Short-circuit protection	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	1
Real sensing range Sr [mm]	1 ± 10 %
Operating distance [mm]	0...0.8

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

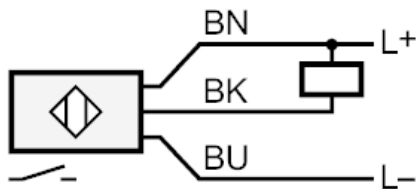
IE5082



Inductive sensor

IEB3001-ANKG

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
	EN 55011	class B
MTTF	[years]	2673
Mechanical data		
Weight	[g]	50.9
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 35
Thread designation		M8 x 1
Material		housing: brass white bronze coated; sensing face: PBT
Tightening torque	[Nm]	A = 5 mm: 1 Nm; B: 2 Nm
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2 x M8
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 2 m, PVC; 3 x 0.14 mm ²		
Connection		



BN =

BU =

BK =

Core colors :
brown
blue
black

IE5082

Inductive sensor

IEB3001-ANKG



Diagrams and graphs

Installation

