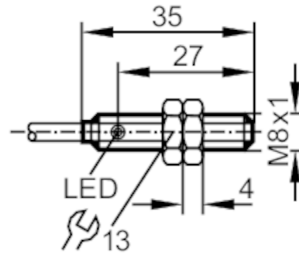


IE5082



Inductive sensor

IEB3001-ANKG



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		1000 nb
Short-circuit protection		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	1
Real sensing range S_r	[mm]	$1 \pm 10\%$
Operating distance	[mm]	0...0.8

Accuracy / deviations

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

Operating conditions

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

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

IE5082



Inductive sensor

IEB3001-ANKG

Mechanical data	
Weight [g]	50.9
Housing	threaded type
Mounting	flush mountable
Dimensions [mm]	M8 x 1 / L = 35
Thread designation	M8 x 1
Materials	brass white bronze coated; PBT
Tightening torque [Nm]	A = 5 mm: 1 Nm; B: 2 Nm

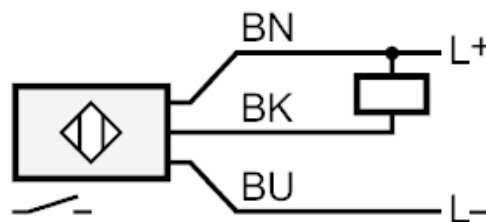
Displays / operating elements		
Display	switching status	1 x LED, yellow

Accessories	
Accessories (supplied)	lock nuts: 2

Remarks	
Pack quantity	1 pcs.

Electrical connection	
Cable: 2 m, PVC; 3 x 0.14 mm ²	

Connection



Core colours :

- BN = brown
- BU = blue
- BK = black

IE5082

Inductive sensor

IEB3001-ANKG



Diagrams and graphs

Installation

