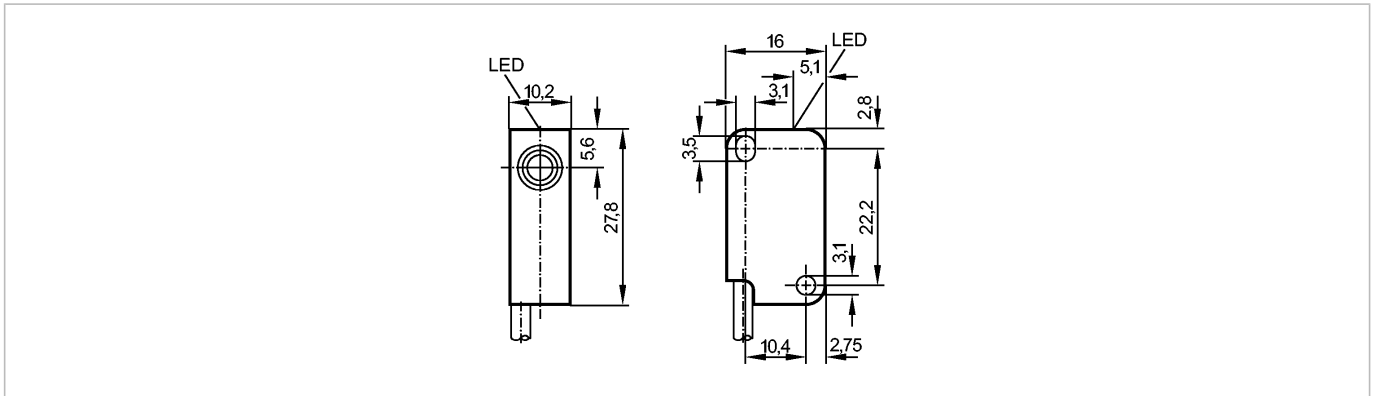


**IS5001**

IS-3002-BPKG

Inductive sensors



**Product characteristics**

Inductive sensor
Rectangular, plastics
Cable
Sensing range 2 mm; [f] flush mountable

**Electrical data**

Electrical design	DC PNP
Operating voltage [V]	10...30 DC; cULus - Class 2 source required
Current consumption [mA]	< 15
Protection class	III
Reverse polarity protection	yes

**Outputs**

Output function	normally open
Voltage drop [V]	< 2.5
Leakage current [mA]	< 0.5
<b>Current rating</b>	
- Current rating (continuous) [mA]	200
- Current rating (peak) [mA]	200
Short-circuit protection	yes
Overload protection	yes
Switching frequency [Hz]	800

**Monitoring range**

Sensing range [mm]	2
Real sensing range (Sr) [mm]	2 ± 10 %
Operating distance [mm]	0...1.6
Safe switching off distance s(ar)[mm]	1.62

**Accuracy / deviations**

Correction factors	mild steel = 1 / stainless steel approx. 0.7 / brass approx. 0.4 / aluminium approx. 0.3 / copper approx. 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-10...10

**Environment**

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

## IS5001

IS-3002-BPKG

Inductive sensors

### Tests / approvals

EMC	EN 61000-4-2 ESD: -- CD / 15 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 0.5 kV EN 61000-4-6 HF conducted: 10 V EN 55011: class B
Vibration resistance	EN 60947-5-2
Shock resistance	EN 60947-5-2
MTTF [Years]	3004

### Mechanical data

Mounting	flush mountable
Housing materials	housing: PBT
Tightening torque [Nm]	< 0.5 (with washer)
Weight [kg]	0.043

### Displays / operating elements

Output status indication	LED	yellow
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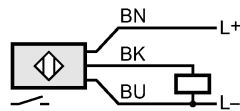
### Electrical connection

Connection	PVC cable / 2 m; 3 x 0.14 mm <sup>2</sup> ; Ø 3.5 mm
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#### Wiring

Core colors

BN brown  
BU blue  
BK black



### Remarks

Pack quantity	[piece]	1
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