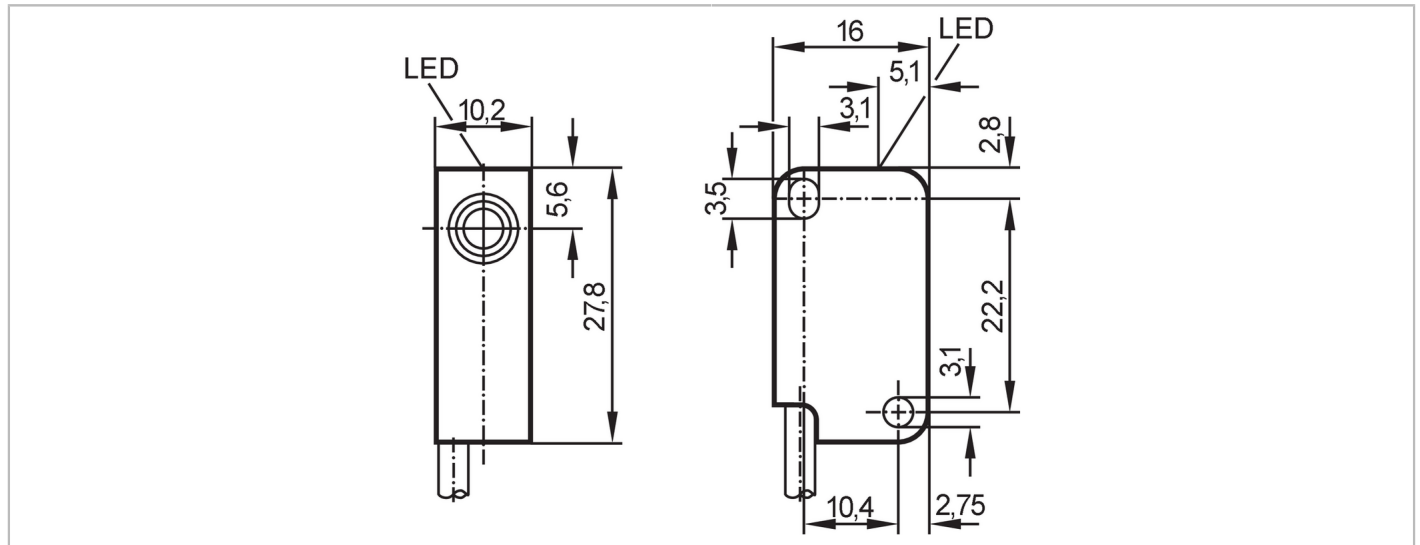


# IS5002



## Inductive sensor

IS-3002-APKG



Product characteristics		
Electrical design		PNP
Output function		normally closed
Sensing range	[mm]	2
Housing		rectangular
Dimensions	[mm]	27.8 x 10.2 x 16
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 closed
Max. voltage drop switching output DC	[V]	2.5
Max. leakage current	[mA]	0.5
Permanent current rating of switching output DC	[mA]	200
Short-time current rating of switching output	[mA]	200
Switching frequency DC	[Hz]	800
Short-circuit protection		yes
Overload protection		yes
Monitoring range		
Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.62

# IS5002



## Inductive sensor

IS-3002-APKG

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	
Tests / approvals		
EMC	EN 61000-4-2 ESD	-- CD / 8 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]	3044	
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191
Mechanical data		
Weight [g]	44.4	
Housing	rectangular	
Mounting	flush mountable	
Dimensions [mm]	27.8 x 10.2 x 16	
Material	housing: PBT; cover: PBT	
Tightening torque [Nm]	< 0.5; (with washer)	
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Remarks		
Pack quantity	1 pcs.	

# IS5002



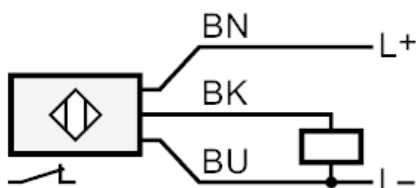
## Inductive sensor

IS-3002-APKG

### Electrical connection

Cable: 2 m, PVC,  $\varnothing$  3.5 mm; 3 x 0.14 mm<sup>2</sup>

### Connection



Core colors :  
BN = brown  
BU = blue  
BK = black