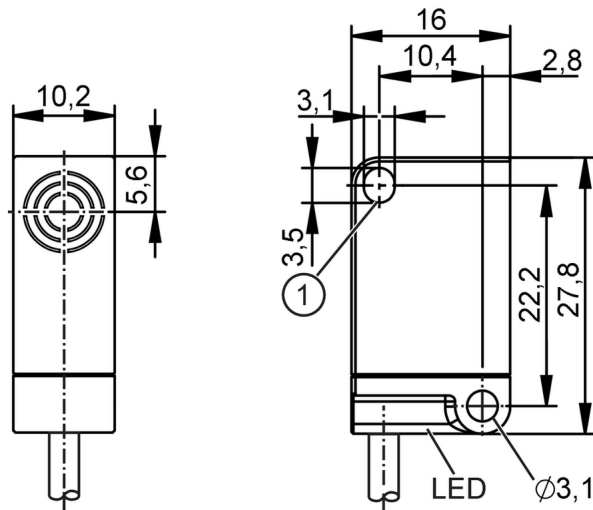


IS6002



Inductive sensor

IS-3003BBPKG/2M/PUR



1 mounting hole



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	3
Housing		rectangular
Dimensions	[mm]	27.8 x 10.2 x 16
Application		
Special feature		Increased sensing range
Application		Industrial applications
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 20
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]	1000
Short-circuit protection		yes
Overload protection		yes
Monitoring range		
Sensing range	[mm]	3
Real sensing range Sr	[mm]	3 ± 10 %
Operating distance	[mm]	0...2.43

IS6002



Inductive sensor

IS-3003BBPKG/2M/PUR

Increased sensing range		yes	
Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3	
Hysteresis [% of Sr]		1...20	
Switch-point drift [% of Sr]		-10...10	
Operating conditions			
Ambient temperature [°C]		-40...85	
Protection		IP 65; IP 66; IP 67; IP 68	
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
Shock resistance	EN 60068-2-27 Ea		100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes
Continuous shock resistance	EN 60068-2-27 Ea		40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes
Fast temperature changes	EN 60068-2-14 Na		TA = -40°C; TB = 85°C; t1 = 30 min; t2 = 10 s 50 cycles
Vibration resistance	EN 60068-2-6 Fc		20 g (10...3000 Hz) / 50 sweep cycles per frequency; 1 octave per minute in 3 axes
Salt spray test	EN 60068-2-52 Kb		severity level 5 (4 test cycles)
MTTF [years]	1110		
UL approval	Ta		-25...70 °C
	Enclosure type		Type 1
	voltage supply		Limited Voltage/Current
	UL approval number		A071
	File number UL		E174191
Mechanical data			
Weight [g]	34.6		
Housing	rectangular		
Mounting	flush mountable		
Dimensions [mm]	27.8 x 10.2 x 16		
Material	housing: PPS orange; LED window: PPSU		
Tightening torque [Nm]	< 0.5; (with washer)		
Displays / operating elements			
Display	Switching status	1 x LED, yellow	
Remarks			
Pack quantity	1 pcs.		

IS6002



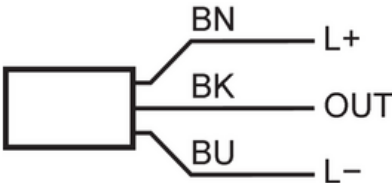
Inductive sensor

IS-3003BBPKG/2M/PUR

Electrical connection

Cable: 2 m, PUR, Ø 2.9 mm; 3 x 0.14 mm²

Connection



BN : brown
BK: black
BU: blue

BN L+
BK OUT DO (NO)
BU L-
DO: digital output; NO: normally open