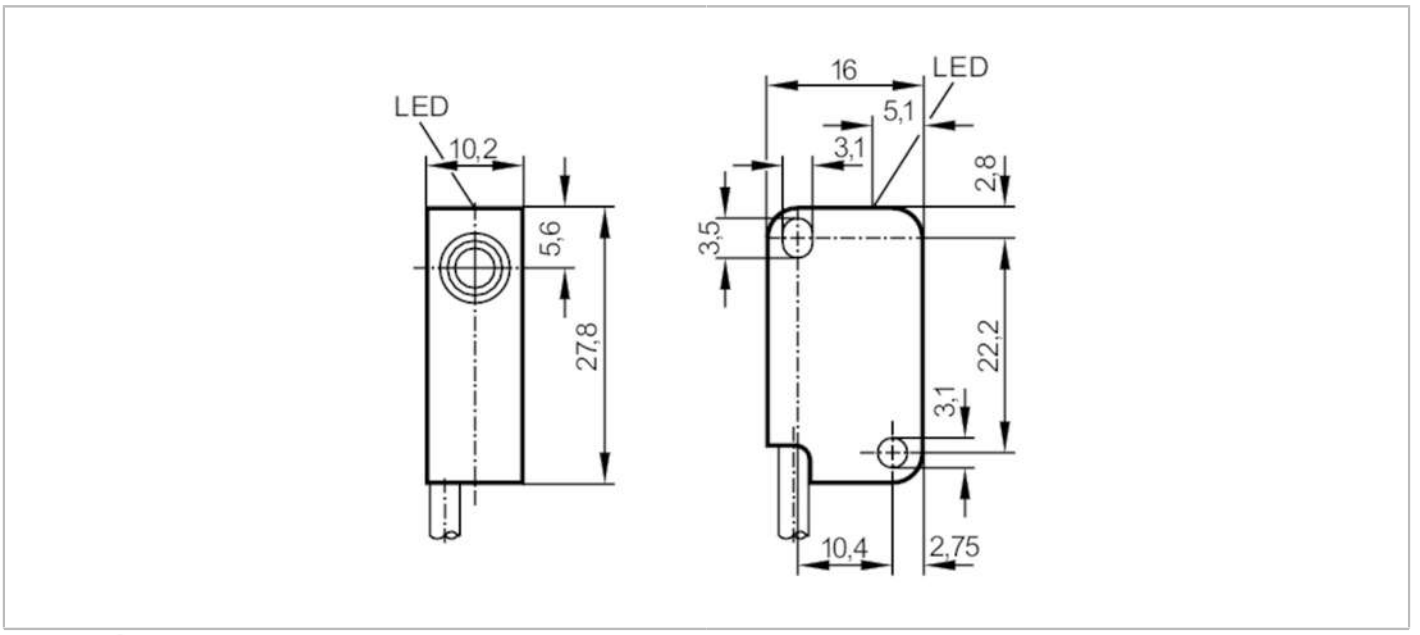
IS5096

Inductive sensor

IS-3002-BPKG/0,2M



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	2
Housing		rectangular
Dimensions	[mm]	28 x 10 x 16
Electrical data		
Operating voltage	[V]	10...30 DC; ("supply class 2" to cULus)
Current consumption	[mA]	< 15
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]	200
Switching frequency DC	[Hz]	800
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	2
Real sensing range Sr	[mm]	(1,8...3,2)
Operating distance	[mm]	0...1.6

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Accuracy / deviations			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	3...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	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 emission	class B
MTTF	[years]	3044	
UL approval		Ta	-25...80 °C
		Enclosure type	Type 1
		power supply	Class 2
		File number UL	E174191
Mechanical data			
Weight	[g]	13.4	
Housing		rectangular	
Mounting		flush mountable	
Dimensions	[mm]	28 x 10 x 16	
Materials		housing: PBT; LED window: PC	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Remarks			
Pack quantity		1 pcs.	

IS5096

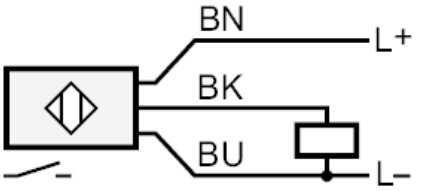
Inductive sensor

IS-3002-BPKG/0,2M

Electrical connection

Cable: 0.2 m, PUR, Ø 3.4 mm; 3 x 0.14 mm²

Connection



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