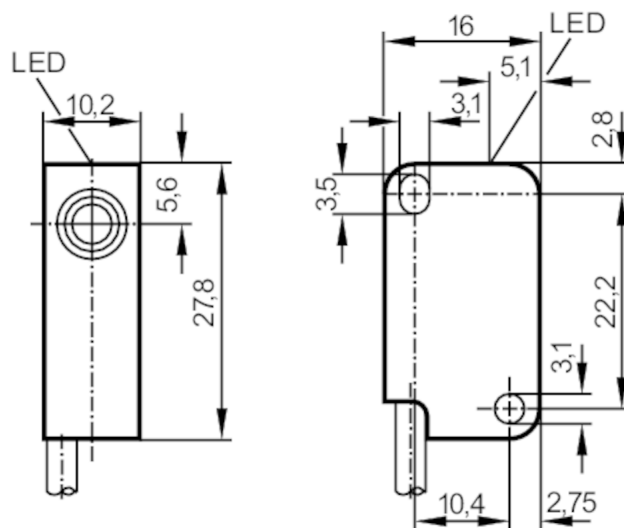




Inductive sensor

IS-3003-BPKG



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
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]	100
Short-circuit protection		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	3
Real sensing range S_r	[mm]	$3 \pm 10\%$
Operating distance	[mm]	0...2.4
Safe switching-off distance	[mm]	2.43

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...20

IS5031



Inductive sensor

IS-3003-BPKG

Operating conditions		
Ambient temperature	[°C]	0...50
Protection		IP 67
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
UL approval	Ta	0...50 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191
Mechanical data		
Weight	[g]	44
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	28 x 10 x 16
Materials		cover: PBT; housing: PBT
Tightening torque	[Nm]	< 0.5; (with washer)
Displays / operating elements		
Display	switching status	1 x LED, yellow
Remarks		
Pack quantity		1 pcs.

IS5031



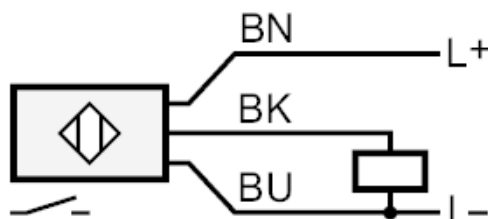
Inductive sensor

IS-3003-BPKG

Electrical connection

Cable: 2 m, PVC, Ø 3.5 mm; 3 x 0.14 mm²

Connection



Core colours :

BK =	black
BN =	brown
BU =	blue