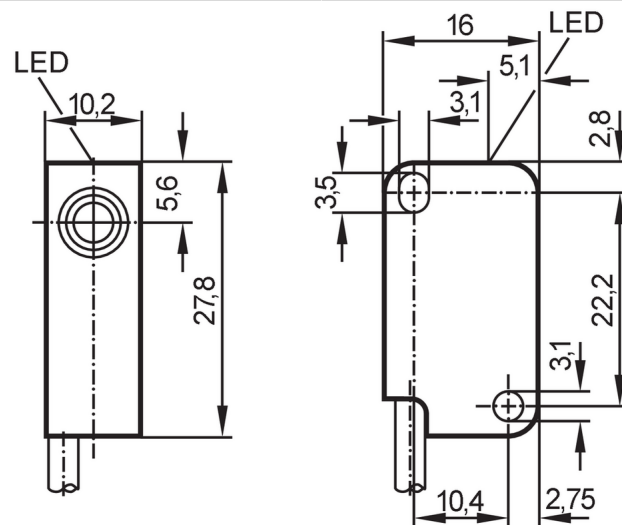


IS5004

Inductive sensor

IS-3002-BNKG



Product characteristics

Electrical design		NPN
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...36 DC
Current consumption	[mA]	15; (24 V)
Protection class		III
Reverse polarity protection		yes

Outputs

Electrical design		NPN
Output function		normally closed
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
Overload protection		yes

Monitoring range

Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
Operating distance	[mm]	0...1.6

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2
Hysteresis	[% of Sr]	1...15

IS5004



Inductive sensor

IS-3002-BNKG

Switch-point drift	[% of Sr]	-10...10
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Operating conditions

Ambient temperature	[°C]	-20...80
Protection		IP 67

Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 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	class B
MTTF	[years]	2791

Mechanical data

Weight	[g]	42.3
Housing		rectangular
Mounting		flush mountable
Dimensions	[mm]	27.8 x 10.2 x 16
Material		housing: PBT
Tightening torque	[Nm]	< 0.5; (with washer)

Displays / operating elements

Display	Switching status	1 x LED, yellow
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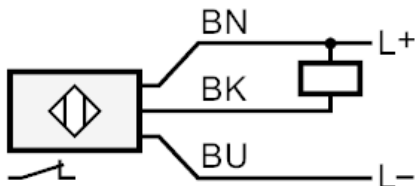
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC; 3 x 0.14 mm²

Connection



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