

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
Detection zone		
Sensing range	[mm]	2
Real sensing range Sr	[mm]	2 ± 10 %
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]		1...15
Switch point drift [% of Sr]		-10...10

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
Materials	PBT
Tightening torque [Nm]	< 0.5; (with washer)

Displays / operating elements

Display	switching status	1 x LED, yellow
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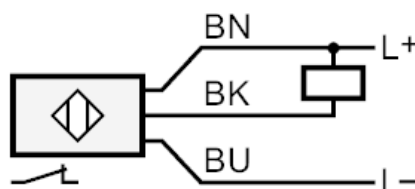
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC; 3 x 0.14 mm²

Connection



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