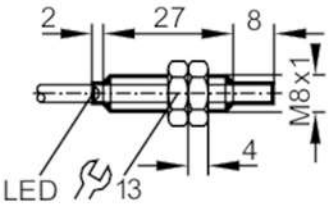
IE5345

Inductive sensor

IEBC005-ASKG



Product characteristics		
Electrical design		PNP/NPN
Output function		normally open
Sensing range	[mm]	5
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 37
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 10; (only in 3-wire operation)
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	2.8
Minimum load current	[mA]	2; (only in 2-wire operation)
Max. leakage current	[mA]	0.5; (only in 2-wire operation)
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	700
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	5
Real sensing range Sr	[mm]	5 ± 10 %
Operating distance	[mm]	0...4.05
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	0...60
Protection		IP 67

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Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	2988	
UL approval		Ta	-25...80 °C
		Enclosure type	Type 1
		power supply	Limited Voltage/Current
		File number UL	E174191

Mechanical data		
Weight	[g]	50.8
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M8 x 1 / L = 37
Thread designation		M8 x 1
Materials		brass white bronze coated; sensing face: LCP

Displays / operating elements		
Display	switching status	1 x LED, yellow

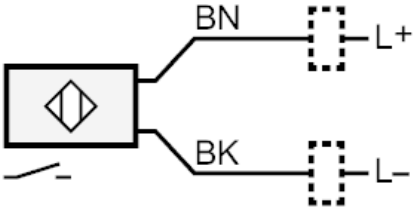
Accessories	
Items supplied	lock nuts: 2

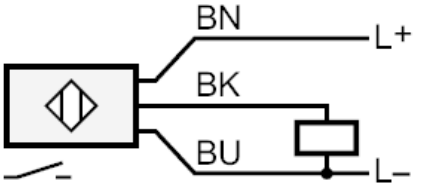
Remarks	
Pack quantity	1 pcs.

Electrical connection

Cable: 2 m, PVC; 3 x 0.14 mm²

Connection





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