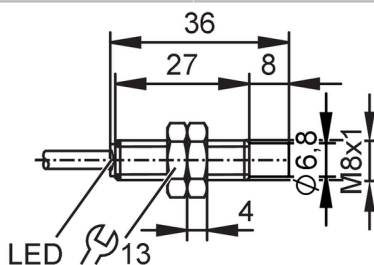




Inductive sensor

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 = 36

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	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	5
Real sensing range S_r [mm]	$5 \pm 10 \%$
Operating distance [mm]	0...4.05

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of S_r]	1...15
Switch-point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	0...60
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IE5345



Inductive sensor

IEBC005-ASKG

Protection	IP 67
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Tests / approvals

EMC	EN 60947-5-2	
MTTF [years]		2988
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval number	A055
	File number UL	E174191

Mechanical data

Weight [g]	50.8
Housing	Threaded type
Mounting	non-flush mountable
Dimensions [mm]	M8 x 1 / L = 36
Thread designation	M8 x 1
Material	housing: brass white bronze coated; sensing face: PBT orange; lock nuts: brass
Tightening torque [Nm]	A = 5 mm: 1,5 Nm; B: 2 Nm

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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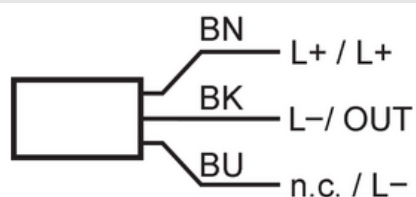
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC, black, Ø 3.4 mm; 3 x 0.14 mm²

Connection



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

2-wire PNP

BN	L+	DO (NO) (PNP)
BK	L-	
BU	n.c.	

2-wire NPN

BN	L+	DO (NO) (NPN)
BK	L-	
BU	n.c.	

IE5345



Inductive sensor

IEBC005-ASKG

3-wire PNP

BN L+
BK L-
BU OUT DO (NO) (PNP)
DO: digital output; NO: normally open

Diagrams and graphs

Installation

