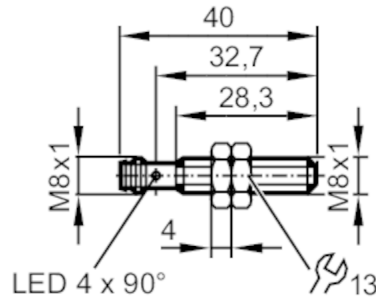


IE5338



Inductive sensor

IEBC003BASKG/AS



Product characteristics

Electrical design		PNP/NPN
Output function		normally open
Sensing range	[mm]	3
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 40

Electrical data

Operating voltage	[V]	10...30 DC
Protection class		III
Reverse polarity protection		yes

Outputs

Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	3.5
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]	800
Short-circuit protection		yes
Overload protection		yes

Detection zone

Sensing range	[mm]	3
Real sensing range Sr	[mm]	3 ± 10 %
Operating distance	[mm]	0...2.4

Accuracy / deviations

Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...20
Switch point drift	[mm]	-10...10

Operating conditions

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

IE5338



Inductive sensor

IEBC003BASKG/AS

Protection	IP 65; IP 67; (with ifm socket duly screwed on)
------------	---

Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF [years]		1858
Embedded software included		yes
UL approval	Ta	0...60 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL Approval no.	A017
	File number UL	E174191

Mechanical data

Weight [g]	16.5
Housing	threaded type
Mounting	flush mountable
Dimensions [mm]	M8 x 1 / L = 40
Thread designation	M8 x 1
Materials	brass white bronze coated; sensing face: LCP orange; LED window: PPSU; lock nuts: brass white bronze coated
Tightening torque [Nm]	A = 5 mm: 1,5 Nm; B = 2 Nm

Displays / operating elements

Display	switching status	4 LED, yellow
---------	------------------	---------------

Accessories

Items supplied	lock nuts: 2
----------------	--------------

Remarks

Pack quantity	1 pcs.
---------------	--------

IE5338

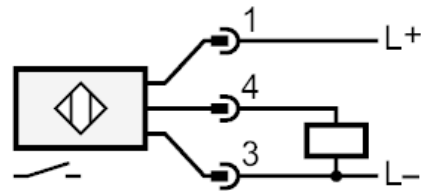
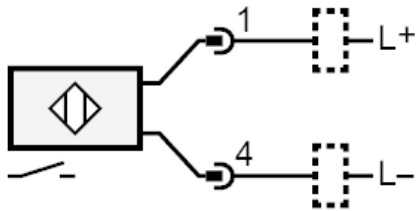


Inductive sensor

IEBC003BASKG/AS

Electrical connection - plug

Connector: 1 x M8; coding: A



Diagrams and graphs

Installation

