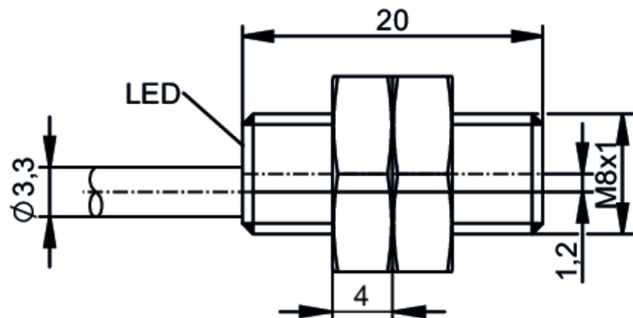


IE5395



Inductive sensor

IEB31,5-BPKG/2M



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	1.5
Housing	Threaded type
Dimensions [mm]	M8 x 1 / L = 20

Electrical data

Operating voltage [V]	10...30 DC; (cULus - Class 2 source required)
Current consumption [mA]	10; (24 V)
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	1.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	4000
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	1.5
Real sensing range Sr [mm]	1.5 ± 10 %
Operating distance [mm]	0...1.2

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.75 / brass: 0.45 / aluminum: 0.4 / copper: 0.3
Hysteresis [% of Sr]	< 15
Switch-point drift [% of Sr]	-10...10

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Operating conditions

Ambient temperature	[°C]	-25...70
Protection		IP 67

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	3 V
	EN 55011	class B
MTTF	[years]	480
UL approval	Ta	< 40 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191

Mechanical data

Weight	[g]	50.55
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 20
Thread designation		M8 x 1
Material		housing: brass nickel-plated; sensing face: LCP

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; 3 x 0.14 mm²

Connection

