

IE500A



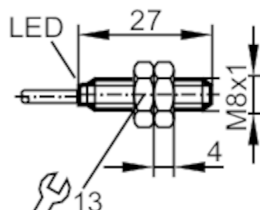
Inductive sensor

IEB3003BAPKG/3M/3D

Article no longer available - archive entry

Alternative articles: NE5001 + N0031A

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Electrical design	PNP
Output function	normally closed
Sensing range [mm]	3
Housing	Threaded type
Dimensions [mm]	M8 x 1 / L = 27

Application

System	Increased sensing range
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Electrical data

Operating voltage [V]	10...30 DC; (; to PELV)
Current consumption [mA]	15; (24 V)
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally closed
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Short-time current rating of switching output [mA]	100
Switching frequency DC [Hz]	1000
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	3
Real sensing range Sr [mm]	3 ± 10 %

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Operating distance	[mm]	0...2.43
Increased sensing range		yes

Accuracy / deviations

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

Operating conditions

Ambient temperature	[°C]	0...60
Protection		IP 67

Tests / approvals

ATEX marking		 II 3D IP 67 T 100 °C X
EMC		EN 60947-5-2

Mechanical data

Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 27
Thread designation		M8 x 1
Material		LCP; brass white bronze coated; PA

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied		lock nuts: 2
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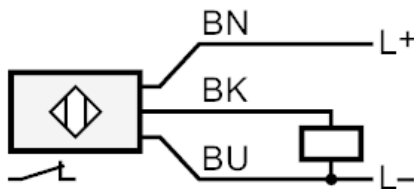
Remarks

Pack quantity		1 pcs.
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Electrical connection

Cable: 3 m, PVC; 3 x 0.14 mm²

Connection



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