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!

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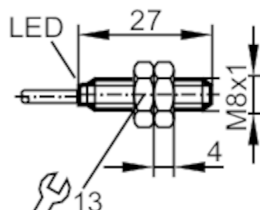
Product characteristics		
Electrical design		PNP
Output function		normally closed
Sensing range	[mm]	3
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 27
Application		
Special feature		Increased sensing range
Electrical data		
Operating voltage	[V]	10...30 DC; (; to PELV)
Current consumption	[mA]	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		pulsed
Overload protection		yes
Detection zone		
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 / aluminium: 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
Materials		LCP; brass white bronze coated; PA

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

Accessories	
Items supplied	lock nuts: 2

Remarks	
Pack quantity	1 pcs.

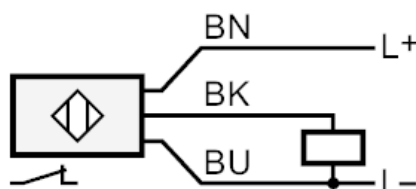| **Electrical connection** |
|---|
| Cable: 3 m, PVC; 3 x 0.14 mm² |

Connection

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