

IG501A



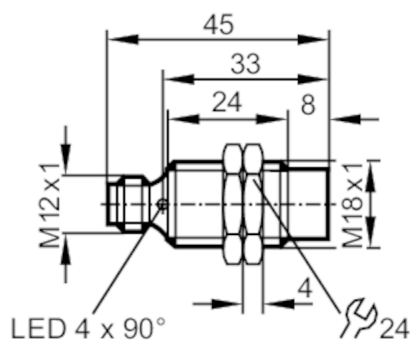
Inductive sensor

IGB3008-BPKG/US/3D

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Alternative articles: IG511A

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



Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	8
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 45

Electrical data

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

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	300
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	8
Real sensing range S_r [mm]	$8 \pm 10 \%$
Operating distance [mm]	0...6.5

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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...10
Operating conditions		
Ambient temperature	[°C]	-20...60
Protection	IP 67	
Tests / approvals		
ATEX marking	 II 3D Ex tD A22 IP67 T80°C X Ta: -20...60°C	
EMC	EN 60947-5-2	
Mechanical data		
Weight	[g]	0.07
Housing	threaded type	
Mounting	non-flush mountable	
Dimensions	[mm]	M18 x 1 / L = 45
Thread designation	M18 x 1	
Materials	brass special coating; sensing face: PBT	
Displays / operating elements		
Display	switching status	4 x LED, yellow
Accessories		
Items supplied	lock nuts: 2	
Remarks		
Pack quantity	1 pcs.	
Electrical connection - plug		
Connector: 1 x M12; coding: A		
		

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Connection

