

IN509A



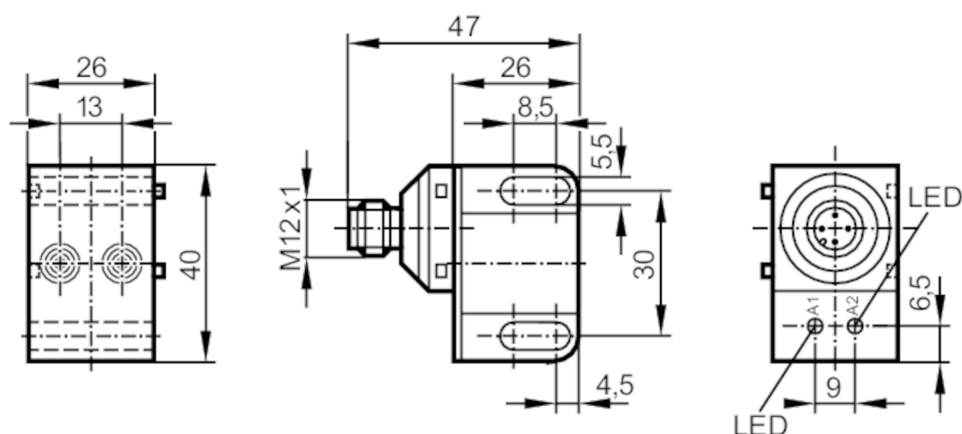
Inductive dual sensor for valve actuators

IND3004DBPKG/US/3D

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Product characteristics

Electrical design	PNP
Output function	2 x normally open
Sensing range [mm]	4
Housing	rectangular
Dimensions [mm]	40 x 26 x 47

Electrical data

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

Outputs

Electrical design	PNP
Output function	2 x normally open
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]	1300
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	4
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Real sensing range Sr	[mm]	4 ± 10 %
Operating distance	[mm]	0...3.2

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3	
Hysteresis	[X01]	1...15
Switch point drift	[X01]	-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	
Note on ATEX marking	only in conjunction with the mounting plate	
EMC	EN 60947-5-2	

Mechanical data

Weight	[g]	0.1
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	40 x 26 x 47
Materials		housing: PBT; cover: PC

Displays / operating elements

Display	switching status	2 x LED, yellow
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Аксессуары

Items supplied	Mounting plate: 1	
	socket head screws: 2 x M5 x 35	

Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; coding: A



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Connection



Core colours :

BK =	black
BN =	brown
BU =	blue
WH =	white