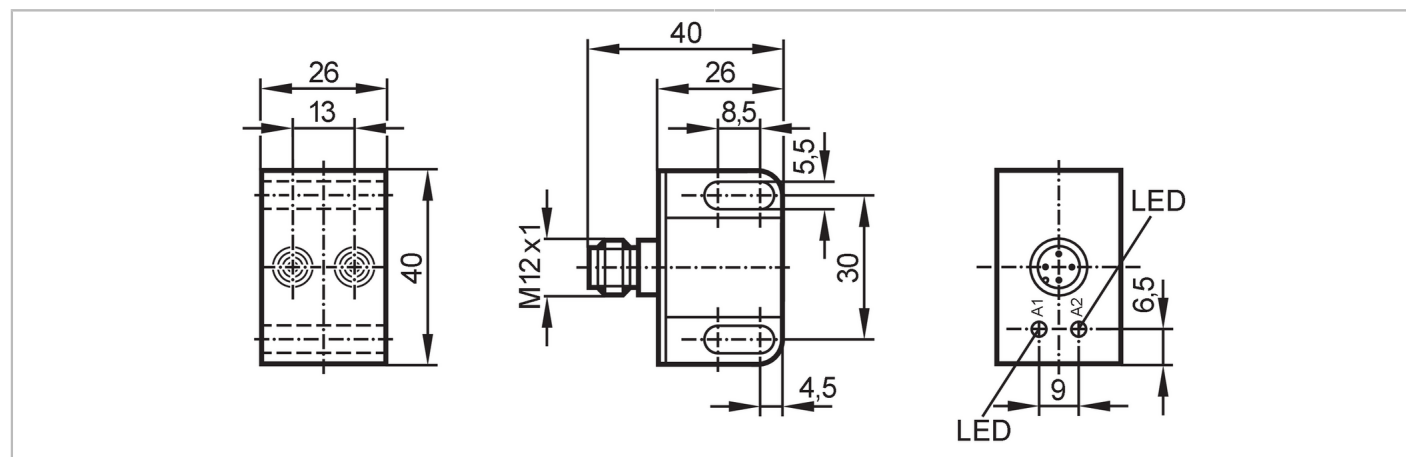




Dual inductive sensor for valve actuators

IND2004DARKG/US-100-ZRV



Product characteristics

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

Application

Special feature	Gold-plated contacts
Application	position sensor for valve actuators

Electrical data

Operating voltage [V]	10...36 DC
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	2 x normally open
Max. voltage drop switching output DC [V]	4
Minimum load current [mA]	4
Max. leakage current [mA]	2 x 0.7
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	1300
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	4
Real sensing range S_r [mm]	$4 \pm 10 \%$
Operating distance [mm]	0...3.25

IN5224



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Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2	
Hysteresis [% of Sr]		1...15
Switch point drift [% of Sr]		-10...10

Operating conditions

Ambient temperature [°C]	-20...80
Protection	IP 67

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]	1229	

Mechanical data

Weight [g]	40.5
Housing	rectangular
Mounting	non-flush mountable
Dimensions [mm]	40 x 26 x 26
Materials	PBT; PC
Tightening torque [Nm]	0.6...1.5; (Lock nut)

Displays / operating elements

Display	switching status	2 x LED, yellow
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated

