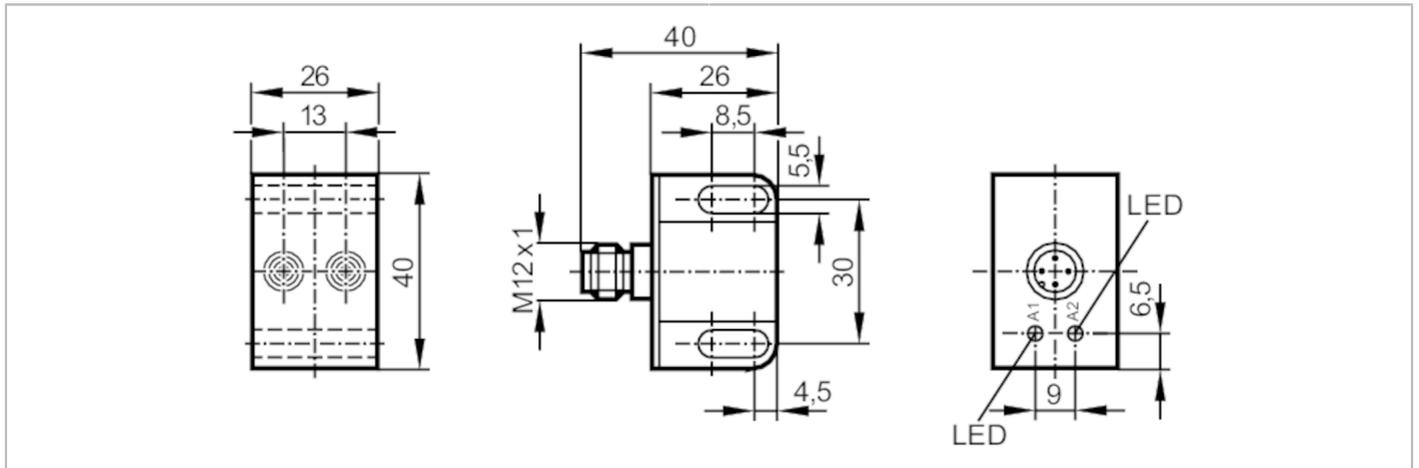


# IN5224



## 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

System		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		yes (non-latching)
Overload protection		yes

### Monitoring range

Sensing range	[mm]	4
Real sensing range Sr	[mm]	4 ± 10 %

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Operating distance	[mm]	0...3.25	
<b>Accuracy / deviations</b>			
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.3 / copper: 0.2	
Hysteresis	[% of Sr]	1...15	
Switch-point drift	[% of Sr]	-10...10	
<b>Operating conditions</b>			
Ambient temperature	[°C]	-20...80	
Protection		IP 67	
<b>Tests / approvals</b>			
EMC		EN 60947-5-2	
		EN 55011	class B
MTTF	[years]	1229	
<b>Mechanical data</b>			
Weight	[g]	40.5	
Housing		rectangular	
Mounting		non-flush mountable	
Dimensions	[mm]	40 x 26 x 26	
Material		PBT; PC	
Tightening torque	[Nm]	0.6...1.5; (knurled nut)	
<b>Displays / operating elements</b>			
Display		Switching status	2 x LED, yellow
<b>Remarks</b>			
Pack quantity		1 pcs.	
<b>Electrical connection - plug</b>			

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

