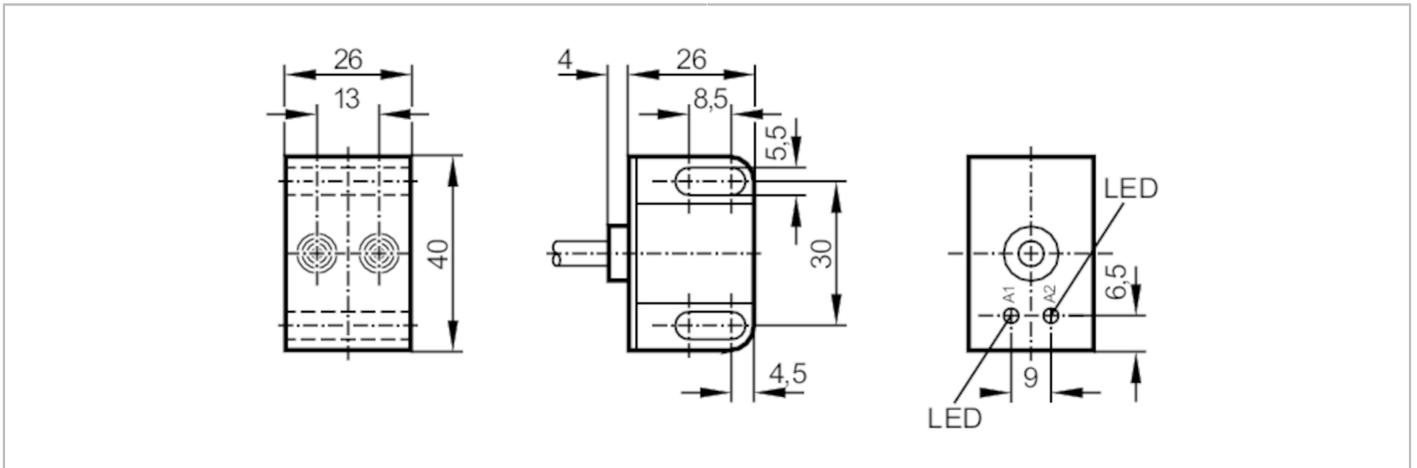


# IN5290



## Dual inductive sensor for valve actuators

IND2004DARKG



### 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

Application		Position sensor for valve actuators
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### 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]	4.6
Minimum load current	[mA]	4
Max. leakage current	[mA]	2 x 0.8
Permanent current rating of switching output DC	[mA]	250
Switching frequency DC	[Hz]	1400
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 %
Operating distance	[mm]	0...3.25

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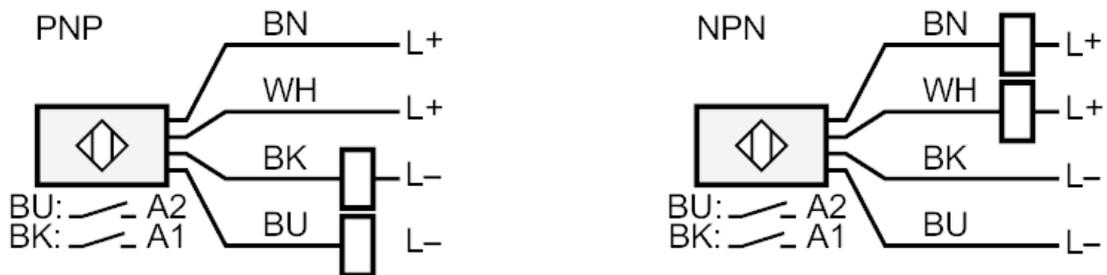
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Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	3...15
Switch-point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1229
Mechanical data		
Weight	[g]	137.5
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	40 x 26 x 26
Material		PBT; PC
Displays / operating elements		
Display	Switching status	2 x LED, yellow
Remarks		
Pack quantity		1 pcs.

**Electrical connection**  
 Cable: 2 m, PVC; 4 x 0.34 mm<sup>2</sup>

### Connection



Core colors :  
 BK = black  
 BN = brown  
 BU = blue  
 WH = white