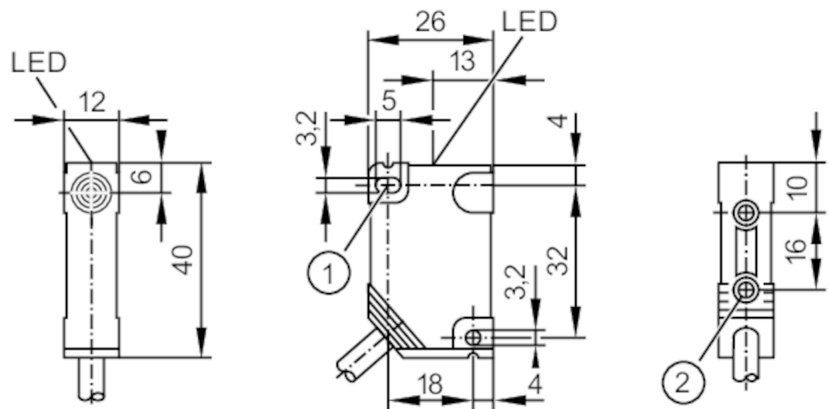


# IN5281



## Inductive sensor

IN-2004-ARKG/2A/3M



- 1 mounting hole  
2 threaded bush M3 Depth 5.8 mm



### Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	4
Housing	rectangular
Dimensions [mm]	40 x 12 x 26

### Application

Special feature	Halogen-free
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### Electrical data

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

### Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	4
Minimum load current [mA]	5
Max. leakage current [mA]	1
Short-time current rating of switching output [mA]	2000; (only for mounting on a solid metal plate or cooling plate: 150 x 50 x 2 mm Intermittent operation with a max. switch-on time of the load current of 4 s. After that a min. switch-off time of the load current of 2 s has to be kept.)
Switching frequency DC [Hz]	70

### Detection zone

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

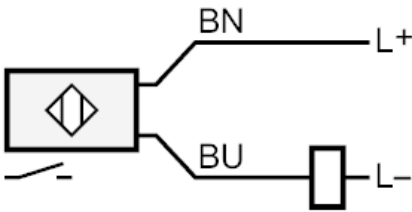
IN5281



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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]	-25...80
Protection		IP 67
Tests / approvals		
MTTF	[years]	874
Mechanical data		
Weight	[g]	143
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	40 x 12 x 26
Materials		PBT
Mounting hole		
Tightening torque	[Nm]	< 0.5
Threaded bush		
Tightening torque	[Nm]	< 1.2; (when brass insert in contact with counterpart)
Displays / operating elements		
Display	switching status	1 x LED, yellow
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 3 m, PUR, Halogen-free; 2 x 0.5 mm²		
Connection		



BN = Core colours : brown  
BU = blue