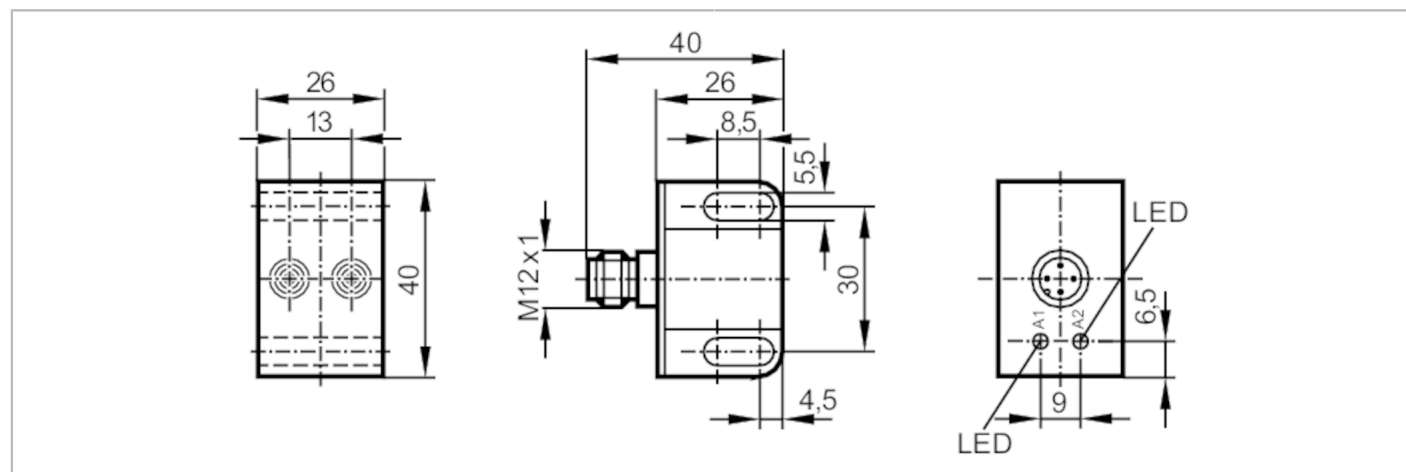


IN5414



Dual inductive sensor for valve actuators

IND3004DANKG/US-100-DNV



Product characteristics

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

Electrical data

Operating voltage [V]	10...36 DC
Rated insulation voltage [V]	250
Current consumption [mA]	< 30
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	NPN
Output function	2 x normally open
Max. voltage drop switching output DC [V]	2.5
Max. leakage current [mA]	0.5
Permanent current rating of switching output DC [mA]	250
Short-time current rating of switching output [mA]	250
Switching frequency DC [Hz]	1000
Short-circuit protection	yes
Overload protection	yes

Monitoring range

Sensing range [mm]	4
Real sensing range Sr [mm]	4 ± 10 %
Operating distance [mm]	0...3.24

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Accuracy / deviations			
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	
Operating conditions			
Ambient temperature		[°C]	-25...80
Protection			IP 67
Tests / approvals			
EMC		EN 60947-5-2	
MTTF		[years]	915
Mechanical data			
Weight		[g]	40.2
Housing		rectangular	
Mounting		non-flush mountable	
Dimensions		[mm]	40 x 26 x 26
Material		housing: PBT; cover: PC	
Tightening torque		[Nm]	0.6...1.5; (knurled nut)
Displays / operating elements			
Display		Switching status	2 x LED, yellow
Remarks			
Pack quantity		1 pcs.	
Electrical connection - plug			
Connector: 1 x M12; coding: A			
			
Connection			
