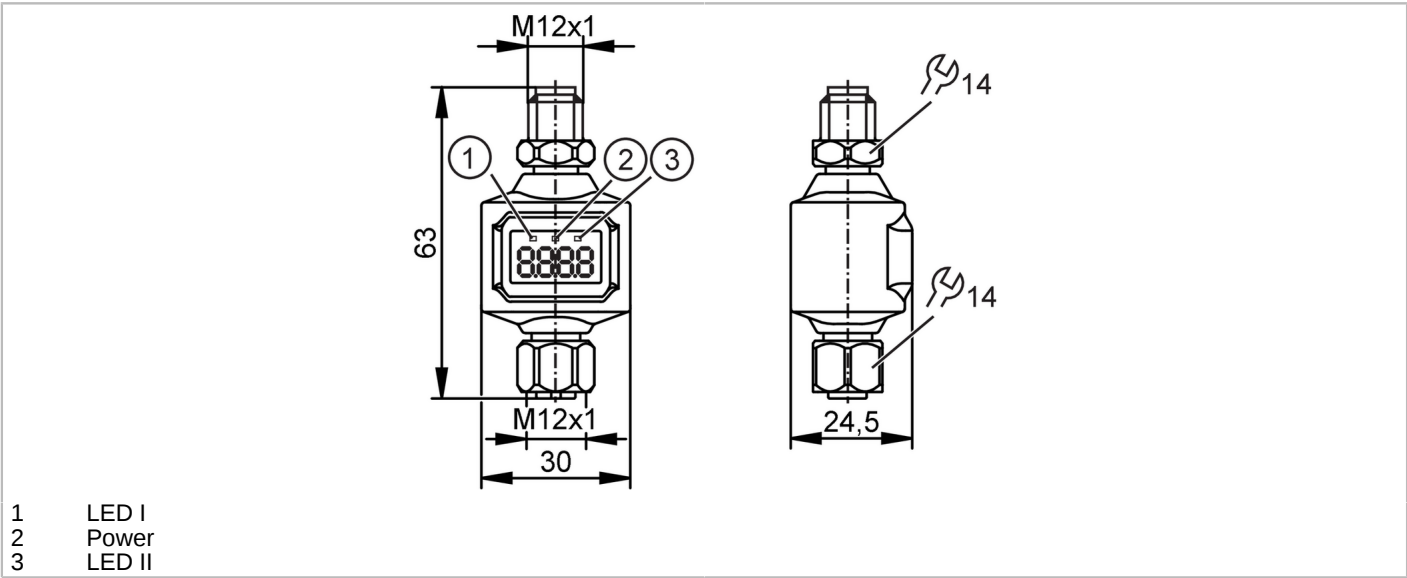


DP4122



Speed monitor IO-Link - 0...2000 Hz

MONITORING DISP-SPEED/IP69K



Product characteristics		
Number of inputs and outputs	Number of digital inputs: 1; Number of digital outputs: 2	
Communication interface	IO-Link	
DP4122_FREQ / CMPT = 1		
Measuring range	[Hz]	0.1...2000
DP4122_REVL / CMPT = 2		
Measuring range	[U/min]	1...120000
Application		
Application	decentralized evaluation unit for speed monitoring and display; for use in wet environments; indoor use	
Electrical data		
Operating voltage	[V]	18...30 DC; ((in wet environments: 18...28 V) to SELV/PELV)
Nominal voltage DC	[V]	24
Current consumption	[mA]	< 380
Max. current load total	[A]	0.2
Inputs / outputs		
Number of inputs and outputs	Number of digital inputs: 1; Number of digital outputs: 2	
Inputs		
Number of digital inputs	1; (IEC61131-2)	
Input current limitation	[mA]	200
Outputs		
Electrical design	PNP/NPN	
Number of digital outputs	2	
Output function	normally open / closed; (configurable)	
Short-circuit proof	yes	

DP4122



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MONITORING DISP-SPEED/IP69K

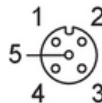
Measuring/setting range		
DP4122_FREQ / CMPT = 1		
Measuring range	[Hz]	0.1...2000
DP4122_REVL / CMPT = 2		
Measuring range	[U/min]	1...120000
Accuracy / deviations		
Hysteresis	[%]	0.5...100
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Smart Sensor - SSP 3.4	Measuring Sensor, high resolution, sensor control function
	Common - I&D	Identification and Diagnosis
	Function	Multiple switching signal
	Function	Adjustable switching signal
SIO mode	yes	
Required master port class	A	
Process data binary	1	
Min. process cycle time	[ms]	4.3
Supported DeviceIDs	Type of operation	DeviceID
	FREQ / CMPT = 1	1167
	REVL / CMPT = 2	1294
Operating conditions		
Ambient temperature	[°C]	-25...60
Note on ambient temperature	2000 m: -25...60 °C	
	3000 m: -25...53 °C	
	4000 m: -25...51 °C	
Storage temperature	[°C]	-25...70
Max. relative air humidity	[%]	90; (linearly decreasing to 50 % (40 °C) non condensing)
Max. height above sea level	[m]	4000
Protection	IP 67; IP 69K	
Pollution degree	2	
Chemical media	DIN EN ISO 175, Ecolab test method 40-1	
	the following media were tested for 28 days at constant room temperature using the dipping test method	P3-topax 66
		P3-topax 990
		Topactive 200
		Topactive 500
		Topactive OKTO
Tests / approvals		
MTTF	[years]	317
UL approval	Ta	max. 55 °C
	File number UL	E205959

DP4122



Speed monitor IO-Link - 0...2000 Hz

MONITORING DISP-SPEED/IP69K

Mechanical data		
Weight	[g]	77.3
Weight (without accessories and packaging)	[g]	28
Housing		rectangular
Dimensions	[mm]	63 x 30 x 24.5
Material		housing: PA
Material nut		stainless steel (1.4404 / 316L)
Sealing material		FKM
Displays / operating elements		
Display	Power	1 x LED, green
	Switching output	2 x LED, yellow
		7-segment LED display, green/red configurable
Remarks		
Remarks	Further information is available in the manual. the device complies with overvoltage category II	
Pack quantity	1 pcs.	
Electrical connection - Socket		
Connector: 1 x M12, straight; coding: A; Contacts: 4; Locking: stainless steel (1.4404 / 316L); sealing: FKM		
		
1: L+		
2:	Enable Input	
3: L-		
4:	Digital input 1	
5:	not used	
Electrical connection - plug		
Connector: 1 x M12, straight; coding: A; Contacts: 4; Locking: stainless steel (1.4404 / 316L)		
		
1: L+	supply voltage	
2: OUT2	Digital output 2	
3: L-	supply voltage	
4: OUT1	IO-Link C/Q	