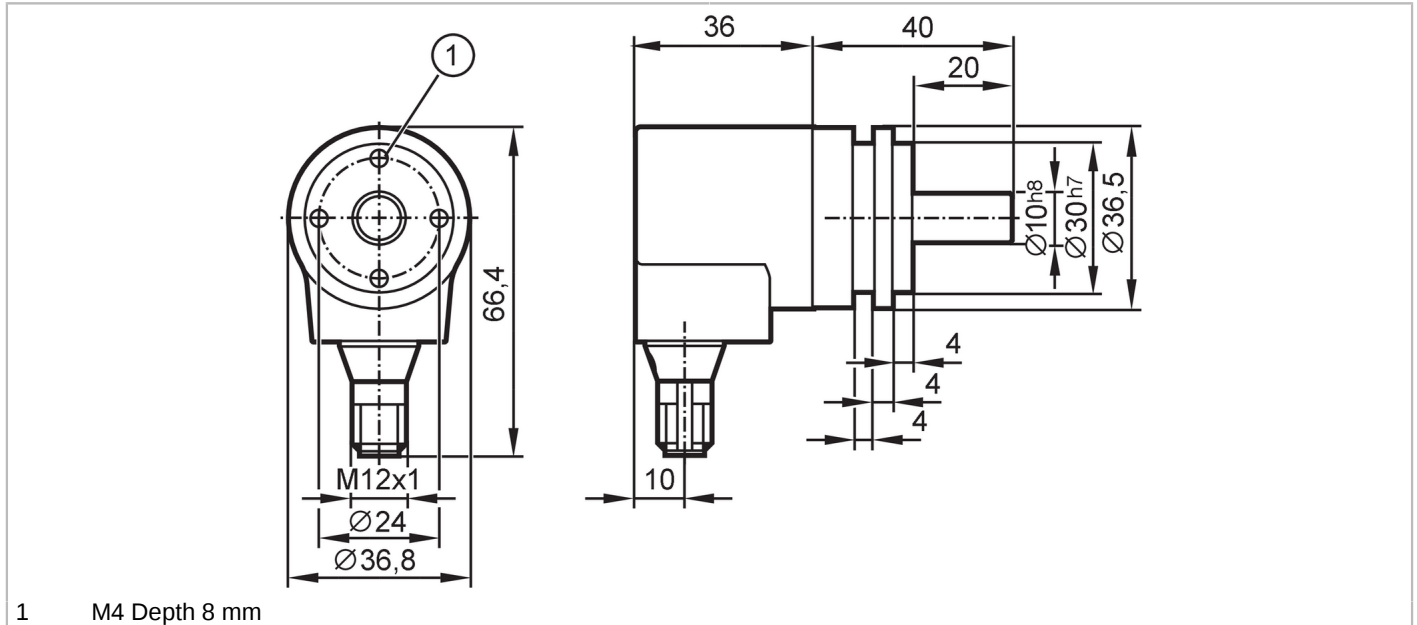


RMB320



Absolute multiturn encoder with solid shaft

RMB10FRU51213bIOLHD



Product characteristics		
Resolution		65536 steps; 32768 revolutions; 31 bit
Communication interface		IO-Link
Shaft design		solid shaft
Shaft diameter	[mm]	10
Application		
Function principle		absolute
Revolution type		multiturn
Detection system		magnetic
Electrical data		
Operating voltage	[V]	18...30 DC; (; to PELV)
Rated insulation voltage	[V]	30
Current consumption	[mA]	< 75
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time	[ms]	1000
Max. revolution electrical	[U/min]	6000
Outputs		
Short-circuit protection		yes
Measuring/setting range		
Resolution		65536 steps; 32768 revolutions; 31 bit
Accuracy / deviations		
Accuracy	[°]	0.1
Software / programming		
Parameter setting options		preset; zero point; direction of rotation; rotational speed



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Interfaces		
Communication interface	IO-Link	
Transmission type	COM3 (230,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9 CDV	
Profiles	Common - I&D	Identification and Diagnosis
	Function	Multiple switching signal
	Function	Measurement data, high resolution
SIO mode	no	
Required master port type	A	
Min. process cycle time [ms]	2.3	
IO-Link process data (cyclical)	function	bit length
	process value	96
	device status	4
	binary switching information	5
IO-Link functions (acyclical)	application specific tag; operating hours counter; internal temperature; switching cycles counter	
Supported DeviceIDs	Type of operation	DeviceID
	default	1064
Note	For further information please see the IODD PDF file under "Downloads"	
Operating conditions		
Ambient temperature [°C]	-40...85	
Storage temperature [°C]	-40...85	
Max. relative air humidity [%]	98; (condensation not permissible)	
Protection	IP 68; IP 69K	
Tests / approvals		
EMC	DIN EN 61000-4-2 ESD	4 kV CD
	DIN EN 61000-4-3 HF radiated	10 V/m
	DIN EN 61000-4-4 Burst	2 kV
	DIN EN 61000-4-6 HF conducted	10 V
Vibration resistance	DIN EN 60068-2-6	30 g / 10...1000 Hz half-sine
Shock resistance	DIN EN 60068-2-27	200 g / 11 ms
Continuous shock resistance	DIN EN 60068-2-29	30 g / 6 ms half-sine
Mechanical data		
Weight [g]	279.8	
Housing	cylindrical	
Dimensions [mm]	Ø 36.8 / L = 76	
Materials	flange: aluminium; housing: steel scratch-resistant cathodic dip coating	
Max. starting torque [Nm]	0.05	
Reference temperature torque [°C]	20	
Shaft design	solid shaft	
Shaft diameter [mm]	10	
Shaft material	stainless steel (440B/1.4112)	
Max. shaft load axial (at the shaft end) [N]	180	

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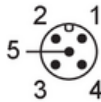
Max. shaft load radial (at the shaft end)	[N]	180
Fixing flange		servo flange

Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12, axial; coding: A; Contacts: 5; LED



1	UB
2	SSC1.2 / IN
3	GND
4	IO-Link
5	n. c.