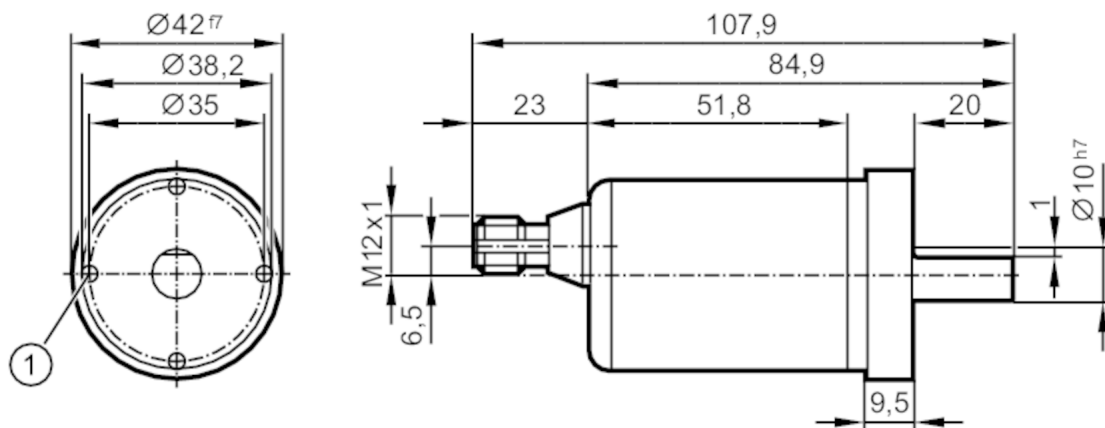


RMB310



Absolute multiturn encoder with solid shaft

MULTITURN ENCODER WETLINE



1 M4 Depth 8 mm



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
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Measuring/setting range

Resolution	65536 steps; 32768 revolutions; 31 bit
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Accuracy / deviations

Accuracy [°]	0.1
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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	Function class	Designation
	0x4000	Identification and Diagnosis
	0x8001	Switching Signal Channel
	0x800B	Measurement Data Channel (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
MTTF [ANN]	283	
UL approval	подача напруги	Class 2
Mechanical data		
Weight [g]	472.1	
Dimensions [mm]	Ø 42 / L = 107.9	
Materials	flange: stainless steel (1.4404 / 316L); housing: stainless steel (1.4404 / 316L)	
Max. starting torque [Nm]	5	
Reference temperature torque [°C]	20	
Shaft design	solid shaft	
Shaft diameter [mm]	10	
Shaft material	stainless steel (1.4112 / 440B)	

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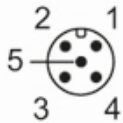
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Max. shaft load axial (at the shaft end)	[N]	300
Max. shaft load radial (at the shaft end)	[N]	300
Fixing flange		synchro-flange

Electrical connection - plug

Connector: 1 x M12, axial; coding: A; Moulded body: stainless steel (316 / 1.4401)



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