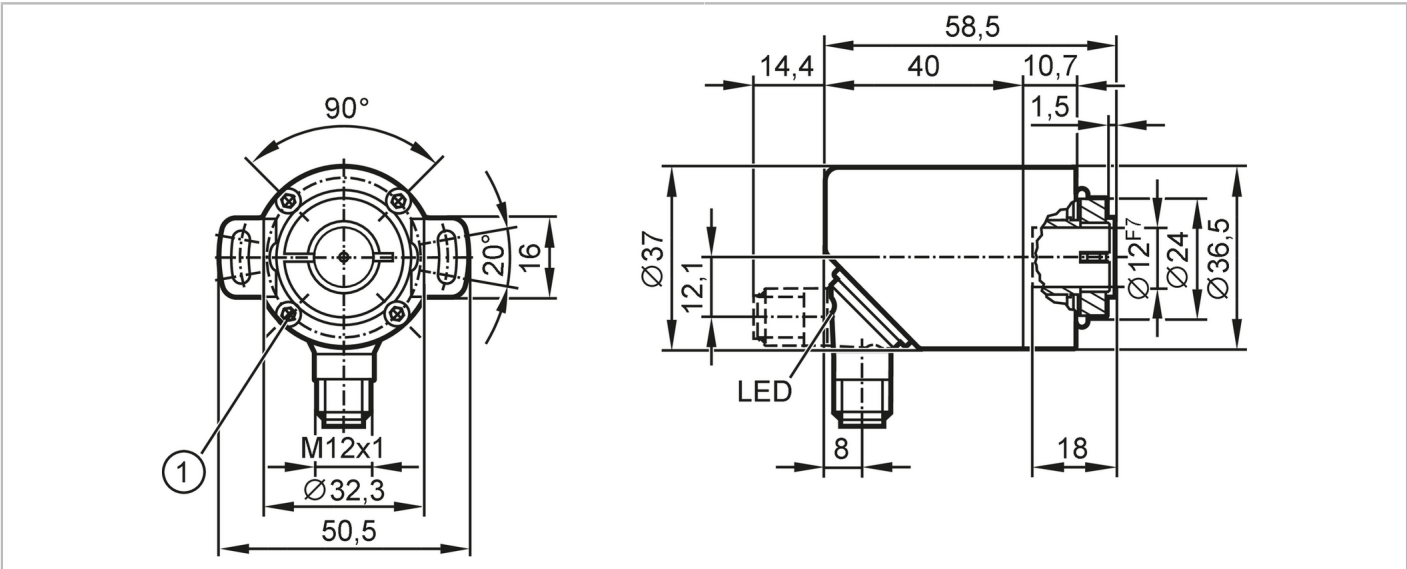


RMA300



Absolute multiturn encoder with hollow shaft

MULTITURN ENCODER STANDARD LINE



Product characteristics

Resolution	65536 steps; 32768 revolutions; 31 bit
Communication interface	IO-Link
Shaft design	hollow shaft open to one side
Shaft diameter [mm]	12

Application

Function principle	absolute
Revolution type	multiturn

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]	12000

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)



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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 65; (on the housing: IP 67; on the shaft: IP 64)	
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	10 g / 10...1000 Hz half-sine
Shock resistance	DIN EN 60068-2-27	100 g 6 ms
Continuous shock resistance	DIN EN 60068-2-29	10 g / 16 ms half-sine
Vibration resistance		30 g (10...1000 Hz)
MTTF [years]	283	
UL approval	voltage supply	Class 2
Mechanical data		
Weight [g]	244.9	
Housing	cylindrical	
Dimensions [mm]	Ø 36 / L = 54.2	
Materials	flange: aluminium; housing: stainless steel (444/1.4521)	
Max. starting torque [Nm]	0.01	
Reference temperature torque [°C]	20	
Shaft design	hollow shaft open to one side	
Shaft diameter [mm]	12	
Shaft material	stainless steel	
Max. shaft load axial (at the shaft end) [N]	40	

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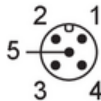
Max. shaft load radial (at the shaft end) [N]	110
Installation depth of shaft [mm]	18
Max. axial shaft misalignment [mm]	0,5
Fixing flange	clamping flange

Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 5; Moulded body: stainless steel (316 / 1.4401)



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