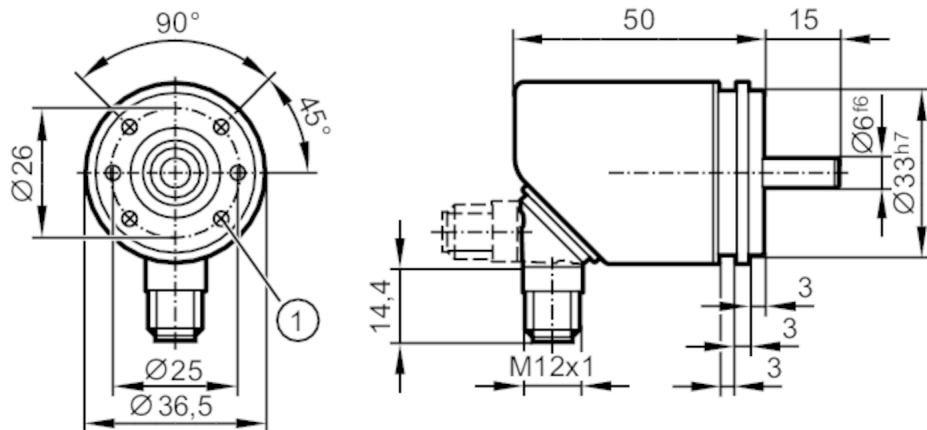


RMB300



Absolute multiturn encoder with solid shaft

MULTITURN ENCODER STANDARD LINE



1 M3 x 0.5 Depth 6 mm



Product characteristics

Resolution	65536 steps; 32768 revolutions; 31 bit
Communication interface	IO-Link
Shaft design	solid shaft
Shaft diameter [mm]	6

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)
IO-Link revision	1.1



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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		power supply	Class 2
Mechanical data			
Weight	[g]	227.2	
Housing		cylindrical	
Dimensions	[mm]	Ø 36.5 / L = 65	
Materials		flange: aluminium; housing: stainless steel (444/1.4521)	
Max. starting torque	[Nm]	0.01	
Reference temperature torque	[°C]	20	
Shaft design		solid shaft	
Shaft diameter	[mm]	6	
Shaft material		stainless steel	
Max. shaft load axial (at the shaft end)	[N]	40	
Max. shaft load radial (at the shaft end)	[N]	110	

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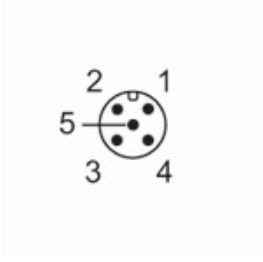
Fixing flange	servo flange; Ø 36 mm
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

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



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