

RM3001



Absolute multiturn encoder with solid shaft

RMU Profibus

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1 M4 Depth 5 mm



Product characteristics

Resolution	8192 steps; 4096 revolutions; 25 bit
Communication interface	PROFIBUS DP
Shaft design	solid shaft
Shaft diameter [mm]	6

Application

Function principle	absolute
Revolution type	multiturn

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 150
Max. revolution electrical [U/min]	6000

Outputs

Code	Dual code
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Measuring/setting range

Resolution	8192 steps; 4096 revolutions; 25 bit
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Software / programming		
Parameter setting options	counting direction of the code values; Resolution; zero point; limit switches HI and LO; motion indicator; separation multiturn/singleturn	
Diagnostic functions	alarms; warnings; status; serial number of the encoder	
Addressing	address selector switch; 0...126	
Interfaces		
Communication interface	PROFIBUS DP	
PROFIBUS DP		
Transmission standard	DPV0 Class 2 (EN50170)	
Transmission rate	...12 Mbit/s	
Operating conditions		
Ambient temperature	[°C]	-40...70
Protection	IP 66; (on the housing: IP 67; on the shaft: IP 66)	
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)
Mechanical data		
Weight	[g]	652
Dimensions	[mm]	Ø 58 / L = 90.5
Materials		aluminium
Max. revolution, mechanical [U/min]		12000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	6
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	10
Max. shaft load radial (at the shaft end)	[N]	20
Fixing flange		synchro-flange
Electrical connection		
terminal strip in the terminal chamber: ; Maximum cable length: 100 m; 400 m (1.5 Mb/s)		