RM7012

Absolute multiturn encoder with solid shaft

RMK0025-C24/E

1   M3 Depth 6 mm
2   M4 Depth 6 mm

Product characteristics	
Resolution	8192 steps; 4096 revolutions; 25 bit
Communication interface	CAN
Shaft design	solid shaft
Shaft diameter [mm]	10
Application	
Function principle	absolute
Revolution type	multiturn
Electrical data	
Operating voltage [V]	10...30 DC
Current consumption [mA]	230; ((10 V DC); 100 (24 V DC))
Reverse polarity protection	yes
Outputs	
Code	binary
Measuring/setting range	
Resolution	8192 steps; 4096 revolutions; 25 bit
Software / programming	
Parameter setting options	CAN parameter; scaling; preset; Baud rate; Direction of rotation; node ID
Addressing	address selector switch; 0...126

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Interfaces	
Communication interface	CAN

CAN	
Protocol	CANopen
Factory settings	Baud rate: 125 kBit/s
	node ID: 32
Version	DSP - 406 V3.1; DS 301 V4.02; DS 306 V2.0

Operating conditions		
Ambient temperature	[°C]	-40...85
Max. relative air humidity	[%]	98
Protection		IP 65; (on the housing: IP 65; on the shaft: IP 64)

Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (10...1000 Hz)
MTTF	[years]	13

Mechanical data		
Weight	[g]	592.5
Housing		tubular
Dimensions	[mm]	Ø 58 / L = 110
Material		aluminum
Max. revolution, mechanical [U/min]		6000
Shaft design		solid shaft
Shaft diameter	[mm]	10
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	40
Max. shaft load radial (at the shaft end)	[N]	110
Fixing flange		Clamping flange

Displays / operating elements		
Display	Preoperational Mode	LED, green flashing
	Operational Mode	LED, green
	Error message	LED, red flashing

Remarks	
Pack quantity	1 pcs.

Electrical connection
Terminal strip in the terminal chamber: