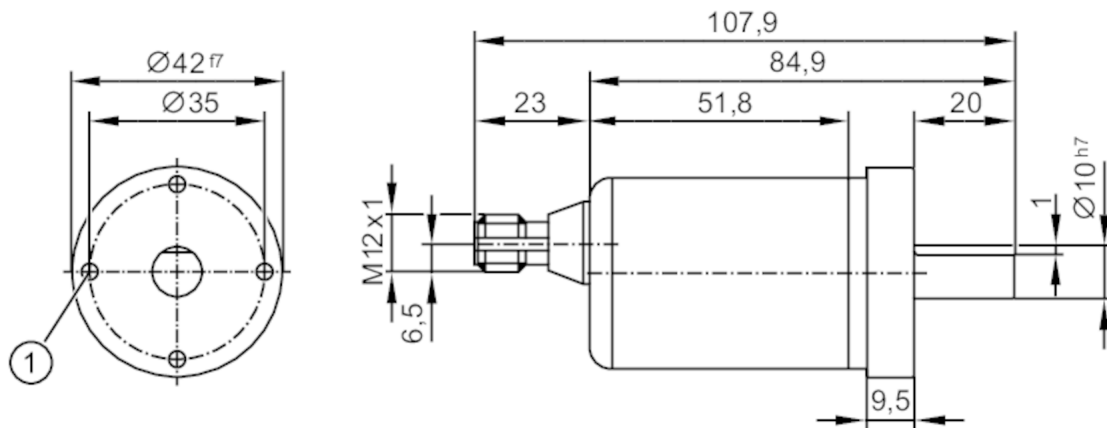


RM9010



Absolute multiturn encoder with solid shaft

RMS0024-C24/UT



1 M4 Depth 8 mm



Product characteristics	
Resolution	4096 steps; 4096 revolutions; 24 bit
Communication interface	CAN
Shaft design	solid shaft
Shaft diameter [mm]	10
Application	
Function principle	absolute
Revolution type	multiturn
Electrical data	
Operating voltage [V]	9...30 DC
Current consumption [mA]	< 100; ((10 V DC) ; ≤ 50 (24 V DC))
Protection class	III
Reverse polarity protection	yes
Outputs	
Short-circuit protection	yes
Code	binary
Measuring/setting range	
Resolution	4096 steps; 4096 revolutions; 24 bit
Accuracy / deviations	
Accuracy [°]	0.08
Software / programming	
Parameter setting options	CAN parameter; scaling; preset; Baud rate; direction of rotation; node ID
Interfaces	
Communication interface	CAN
CAN	
Protocol	CANopen

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Factory settings		Baud rate: 125 kBit/s	
		node ID: 32	
Version		DSP - 406	
Operating conditions			
Ambient temperature		[°C]	-40...85
Protection		IP 68; IP 69K	
Tests / approvals			
Shock resistance			200 g (11 ms)
Vibration resistance			30 g (10...1000 Hz)
MTTF		[years]	240
Mechanical data			
Weight		[g]	469
Housing		cylindrical	
Dimensions		[mm]	Ø 42 / L = 107.9
Materials		flange: stainless steel (316L/1.4404); housing: stainless steel (316L/1.4404)	
Max. revolution, mechanical		[U/min]	6000
Max. starting torque		[Nm]	0.05
Reference temperature torque		[°C]	20
Shaft design		solid shaft	
Shaft diameter		[mm]	10
Shaft material		stainless steel	
Max. shaft load axial (at the shaft end)		[N]	180
Max. shaft load radial (at the shaft end)		[N]	180
Fixing flange		synchro-flange	
Displays / operating elements			
Display		Preoperational Mode	LED, green
		Operational Mode	LED, green flashing
		error message	LED, red flashing
Remarks			
Pack quantity		1 pcs.	

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Electrical connection

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



1	CAN_GND
2	VBBc
3	GND (PE)
4	CAN_High
5	CAN_Low