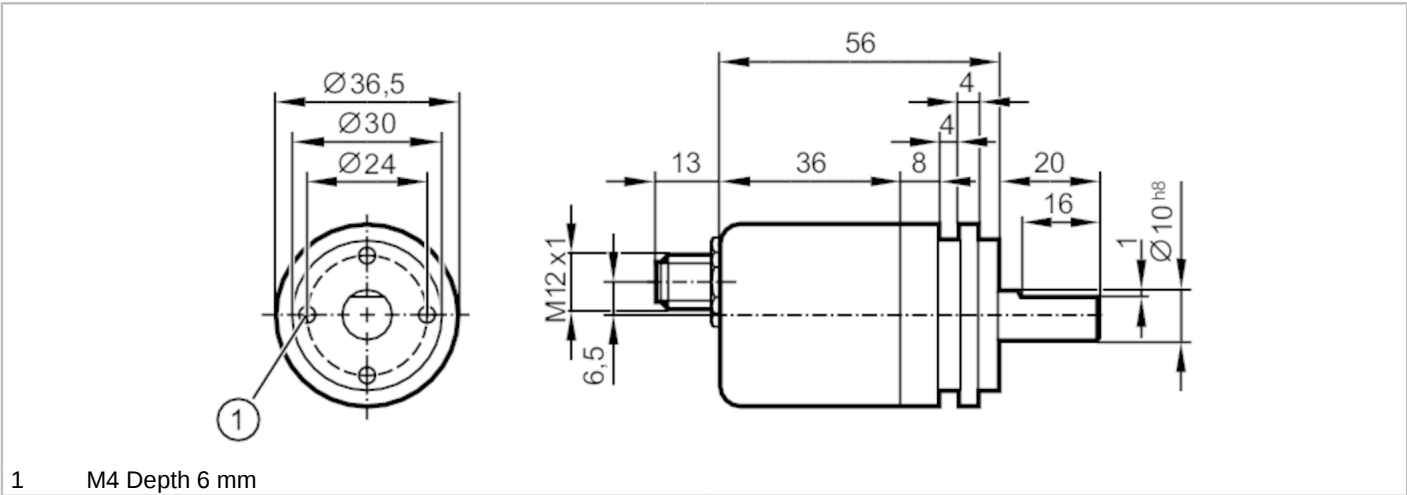


RM9003



Absolute multiturn encoder with solid shaft

RMS0024-C24/UST



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	
Output function	CANopen interface
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
Number of CAN interfaces	1
CAN	
Protocol	CANopen

RM9003



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

Operating conditions

Ambient temperature	[°C]	-40...85
Protection		IP 68; IP 69K

Tests / approvals

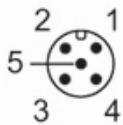
Shock resistance		200 g (11 ms)
Vibration resistance		30 g (10...1000 Hz)
MTTF	[years]	240

Mechanical data

Weight	[g]	228.2
Dimensions	[mm]	Ø 36.5 / L = 100
Material		flange: aluminum; housing cap: steel scratch-resistant cathodic dip coating
Max. revolution, mechanical	[U/min]	6000
Max. starting torque	[Nm]	5
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	10
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	180
Max. shaft load radial (at the shaft end)	[N]	180
Fixing flange		Synchro-flange

Electrical connection

Connector: 1 x M12, axial; coding: A



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