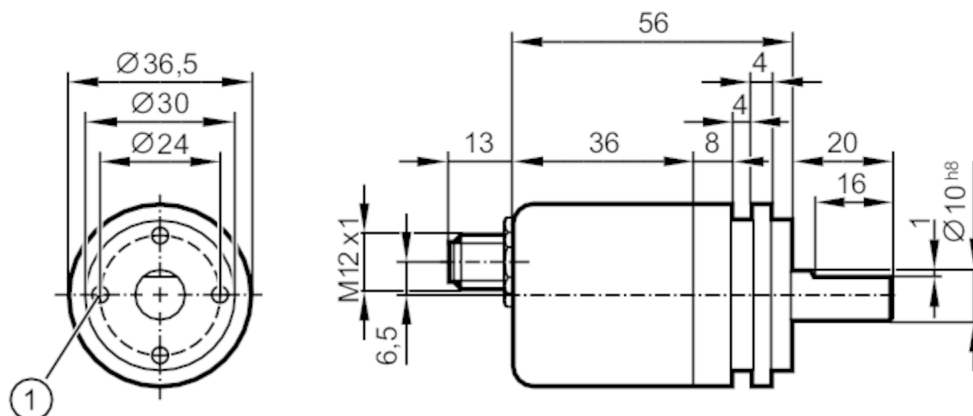


RM9003



Absolute multiturn encoder with solid shaft

RMS0024-C24/UST



1 M4 Depth 6 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

Output function	CANopen interface
Short-circuit protection	yes
Code	binary

Measuring/setting range

Resolution	4096 steps; 4096 revolutions; 24 bit
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Accuracy / deviations

Accuracy [°]	0.08
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Software / programming

Parameter setting options	CAN parameter; scaling; preset; Baud rate; direction of rotation; Node ID
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Interfaces

Communication interface	CAN
Number of CAN interfaces	1

CAN

Protocol	CANopen
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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

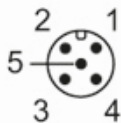
Shock resistance		200 g (11 ms)
Vibration resistance		30 g (10...1000 Hz)
MTTF	[years]	240

Mechanical data

Weight	[g]	228.2
Dimensions	[mm]	Ø 36.5 / L = 100
Materials		flange: aluminium; 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