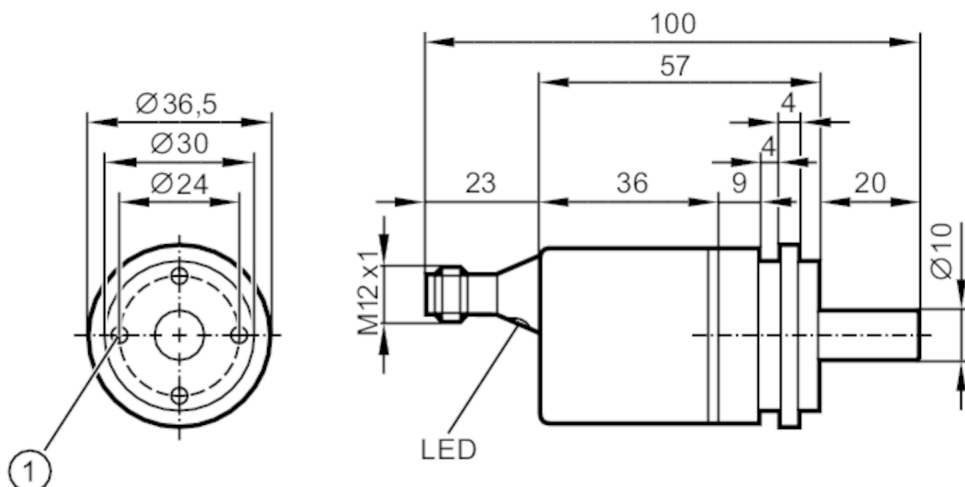


RM9000



Absolute multiturn encoder with solid shaft

RMS0024-C24/US



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; (cULus - Class 2 source required)
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
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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
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CAN

Protocol	CANopen
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RM9000



Absolute multiturn encoder with solid shaft

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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

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

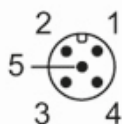
Tests / approvals	
Shock resistance	200 g (11 ms)
Vibration resistance	30 g (10...1000 Hz)
MTTF [years]	240

Mechanical data	
Weight [g]	270.9
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

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

Electrical connection

Connector: 1 x M12, axial; coding: A



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