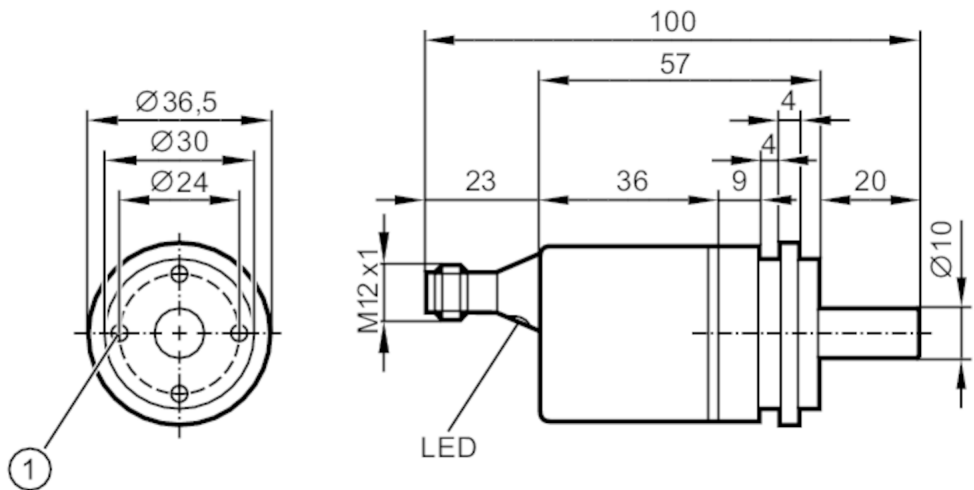


RM9000



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; ("supply class 2" to cULus)
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
Housing		cylindrical	
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]	0.05
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
Remarks			
Pack quantity		1 pcs.	

RM9000

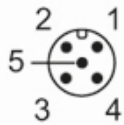


Absolute multiturn encoder with solid shaft

RMS0024-C24/US

Electrical connection

Connector: 1 x M12, axial; coding: A



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