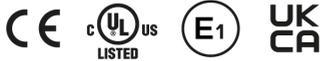
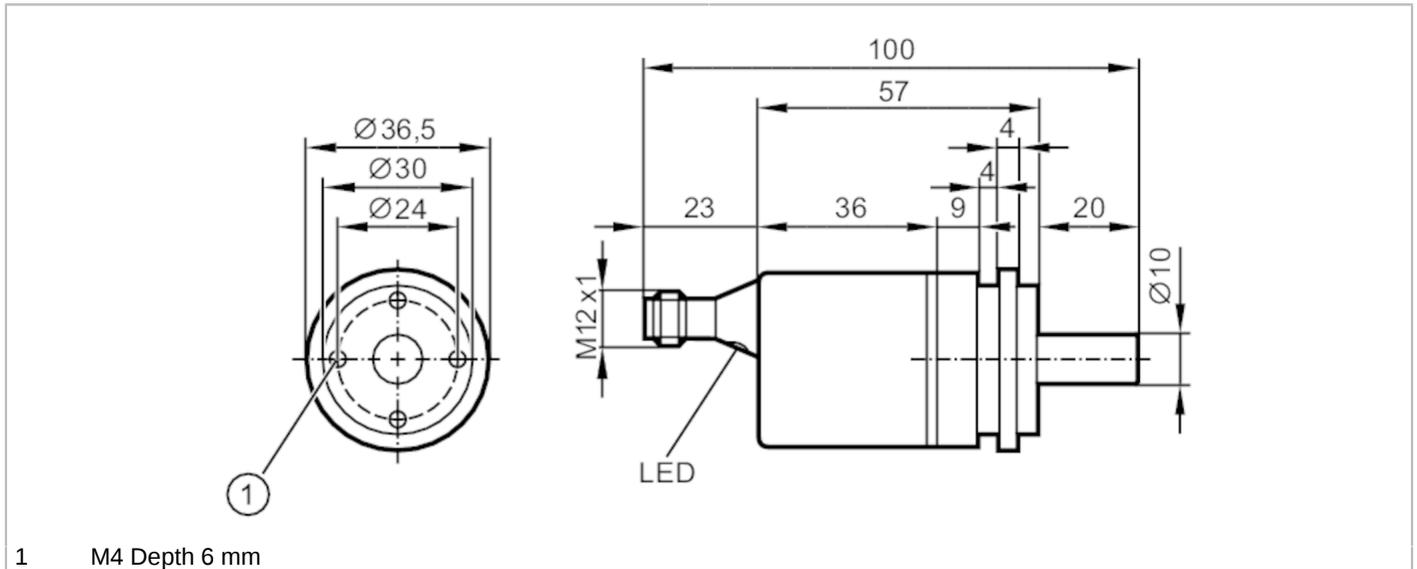


# RM9000



## Absolute multiturn encoder with solid shaft

RMS0024-C24/US



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
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

# RM9000



## Absolute multiturn encoder with solid shaft

RMS0024-C24/US

Factory settings	Baud rate: 125 kBit/s	
	node ID: 32	
Version	DSP - 406 V3.1; DS 301 V4.02; DS 306 V2.0	
<b>Operating conditions</b>		
Ambient temperature	[°C]	-40...85
Protection		IP 68; IP 69K
<b>Tests / approvals</b>		
Shock resistance		200 g (11 ms)
Vibration resistance		30 g (10...1000 Hz)
MTTF	[years]	240
<b>Mechanical data</b>		
Weight	[g]	270.9
Housing		tubular
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]	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
<b>Displays / operating elements</b>		
Display	Preoperational Mode	LED, green
	Operational Mode	LED, green flashing
	Error message	LED, red flashing
<b>Remarks</b>		
Pack quantity		1 pcs.

# RM9000

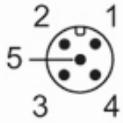


## Absolute multiturn encoder with solid shaft

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