RM7004

Absolute multiturn encoder with solid shaft

RMK0025-C24/E

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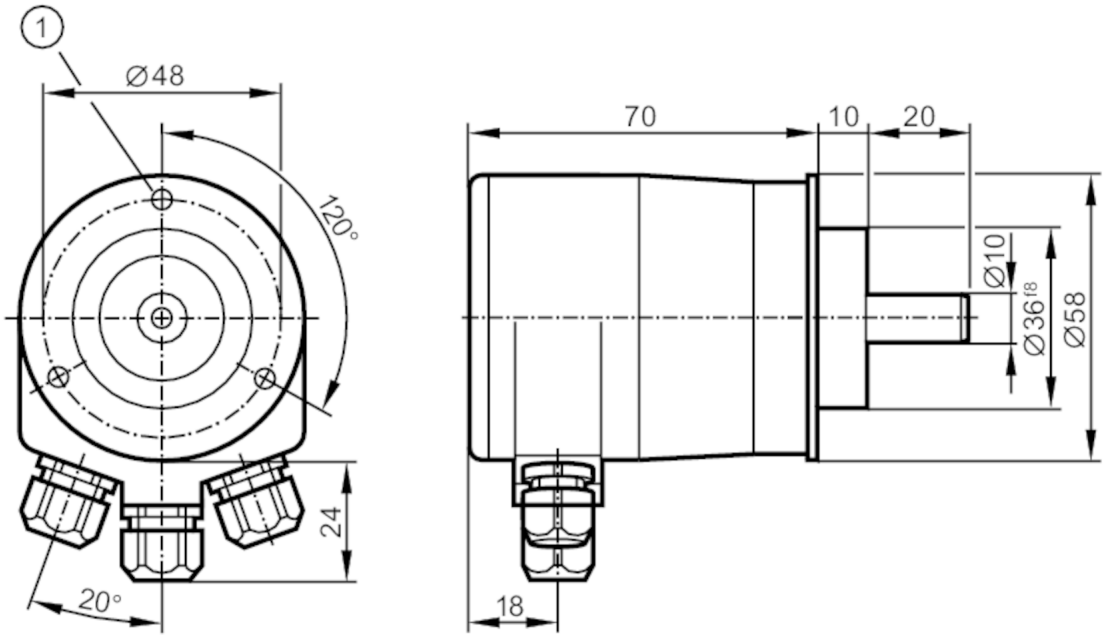

1 M4 Depth 5 mm

Product characteristics		
Resolution		8192 steps; 4096 revolutions; 25 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...36 DC
Current consumption	[mA]	< 250
Reverse polarity protection		yes
Outputs		
Short-circuit protection		yes
Code		binary
Measuring/setting range		
Resolution		8192 steps; 4096 revolutions; 25 bit
Accuracy / deviations		
Accuracy		± 1 LSB

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Software / programming		
Parameter setting options		CAN parameter; scaling; preset; Baud rate; direction of rotation; address
Addressing		address selector switch; Software
Interfaces		
Communication interface		CAN
CAN		
Protocol		CANopen; DSP - 406
Operating conditions		
Ambient temperature	[°C]	-40...70
Protection		IP 66; (on the housing: IP 67; on the shaft: IP 67)
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)
Mechanical data		
Weight	[g]	612
Dimensions	[mm]	Ø 58 / L = 100
Materials		aluminium
Max. revolution, mechanical	[U/min]	6000
Max. starting torque	[Nm]	1
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]	10
Max. shaft load radial (at the shaft end)	[N]	20
Fixing flange		clamping flange

Electrical connection

terminal strip in the terminal chamber: ; Maximum cable length: 25 m; 100 m (500 kb/s)