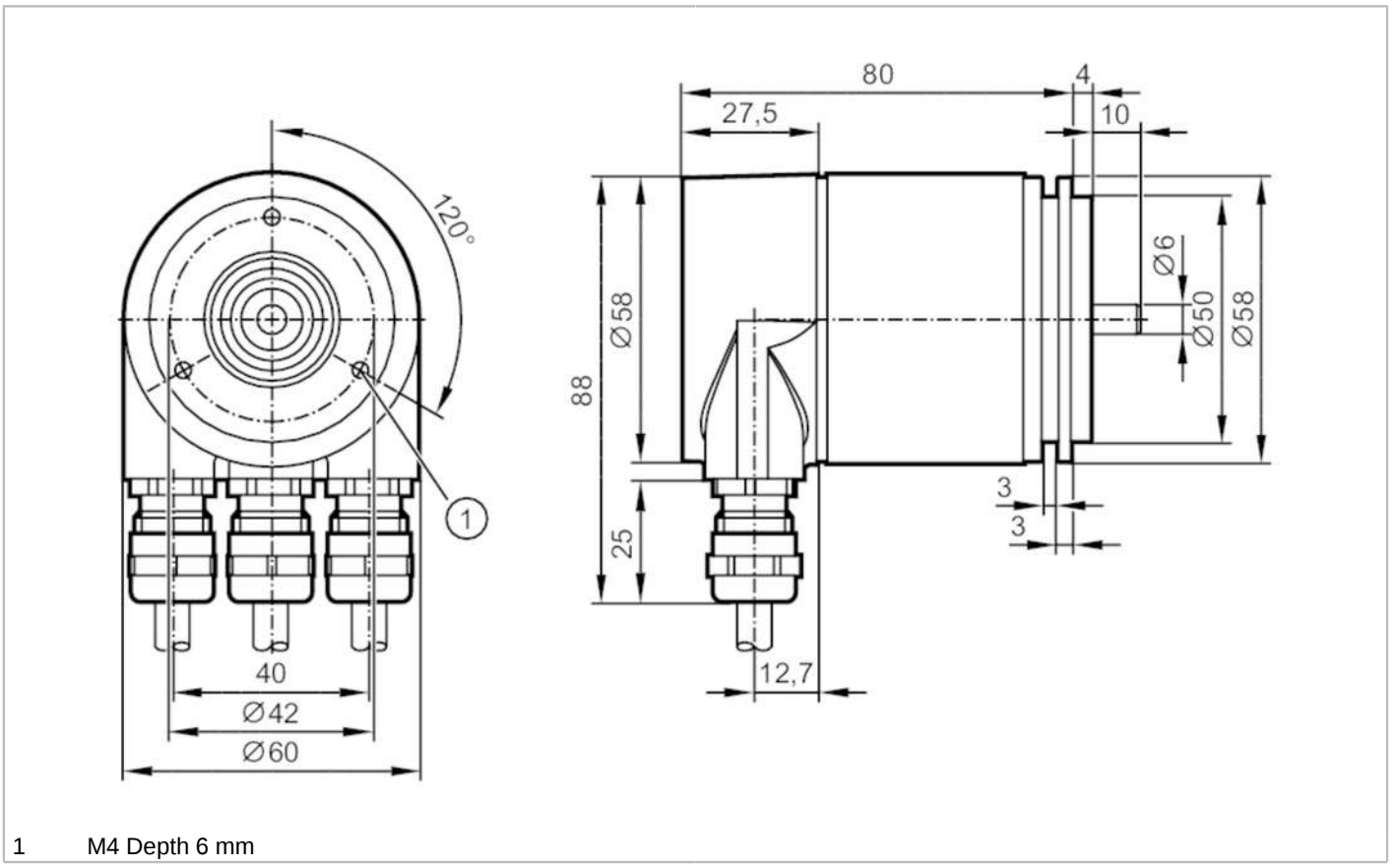
RM7011

Absolute multiturn encoder with solid shaft

RMS0025-C24/E



1 M4 Depth 6 mm

Product characteristics		
Resolution		8192 steps; 4096 revolutions; 25 bit
Communication interface		CAN
Shaft design		solid shaft
Shaft diameter	[mm]	6
Application		
Function principle		absolute
Revolution type		multiturn
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	230; ((10 V DC); 100 (24 V DC))
Reverse polarity protection		yes
Outputs		
Code		binary
Measuring/setting range		
Resolution		8192 steps; 4096 revolutions; 25 bit
Software / programming		
Parameter setting options		CAN parameter; scaling; preset; Baud rate; direction of rotation; Node ID
Addressing		address selector switch; 0...126

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Interfaces		
Communication interface		CAN
CAN		
Protocol		CANopen
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
Max. relative air humidity	[%]	98
Protection		IP 65; (on the housing: IP 65; on the shaft: IP 64)
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (10...1000 Hz)
MTTF	[years]	13
Mechanical data		
Weight	[g]	567.5
Dimensions	[mm]	Ø 58 / L = 94
Materials		aluminium
Max. revolution, mechanical	[U/min]	6000
Shaft design		solid shaft
Shaft diameter	[mm]	6
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	40
Max. shaft load radial (at the shaft end)	[N]	110
Fixing flange		synchro-flange
Displays / operating elements		
Display	Preoperational Mode	LED, green flashing
	Operational Mode	LED, green
	error message	LED, red flashing
Electrical connection		
terminal strip in the terminal chamber:		