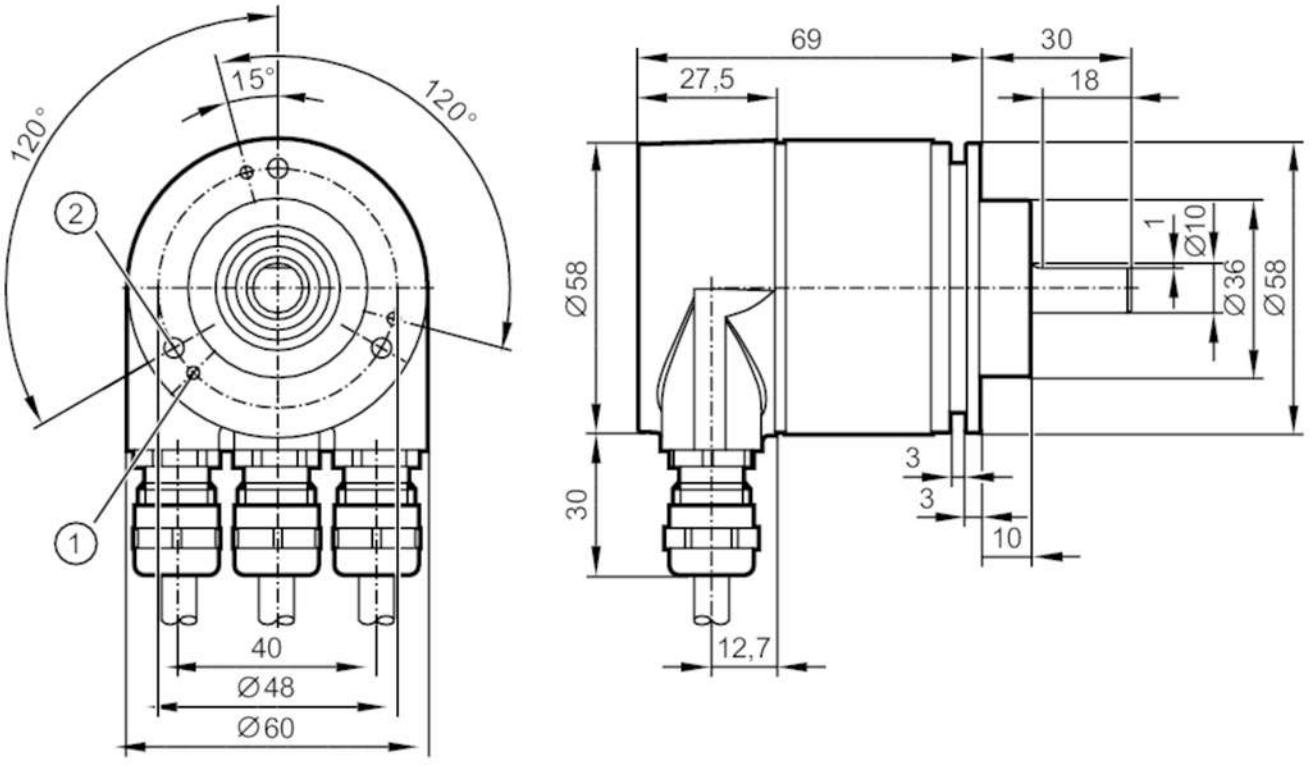
RN7012

Absolute singleturn encoder with solid shaft

RMK0013-C24/E



1 M3 Depth 6 mm
2 M4 Depth 6 mm

Product characteristics		
Resolution		8192 steps; 13 bit
Communication interface		CAN
Shaft design		solid shaft
Shaft diameter	[mm]	10
Application		
Function principle		absolute
Revolution type		singleturn
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	100; ((10 V DC); 60 (24 V DC))
Reverse polarity protection		yes
Outputs		
Code		binary
Measuring/setting range		
Resolution		8192 steps; 13 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	
Factory settings		Baud rate: 125 kBit/s	
		node ID: 32	
CAN			
Protocol		CANopen; DSP - 406 V3.1; DS 301 V4.02; DS 306 V2.0	
Factory settings		Baud rate: 125 kBit/s	
		node ID: 32	
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]	555	
Dimensions	[mm]	Ø 58 / L = 99	
Materials		aluminium	
Max. revolution, mechanical	[U/min]	12000	
Shaft design		solid shaft	
Shaft diameter	[mm]	10	
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		clamping 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:			