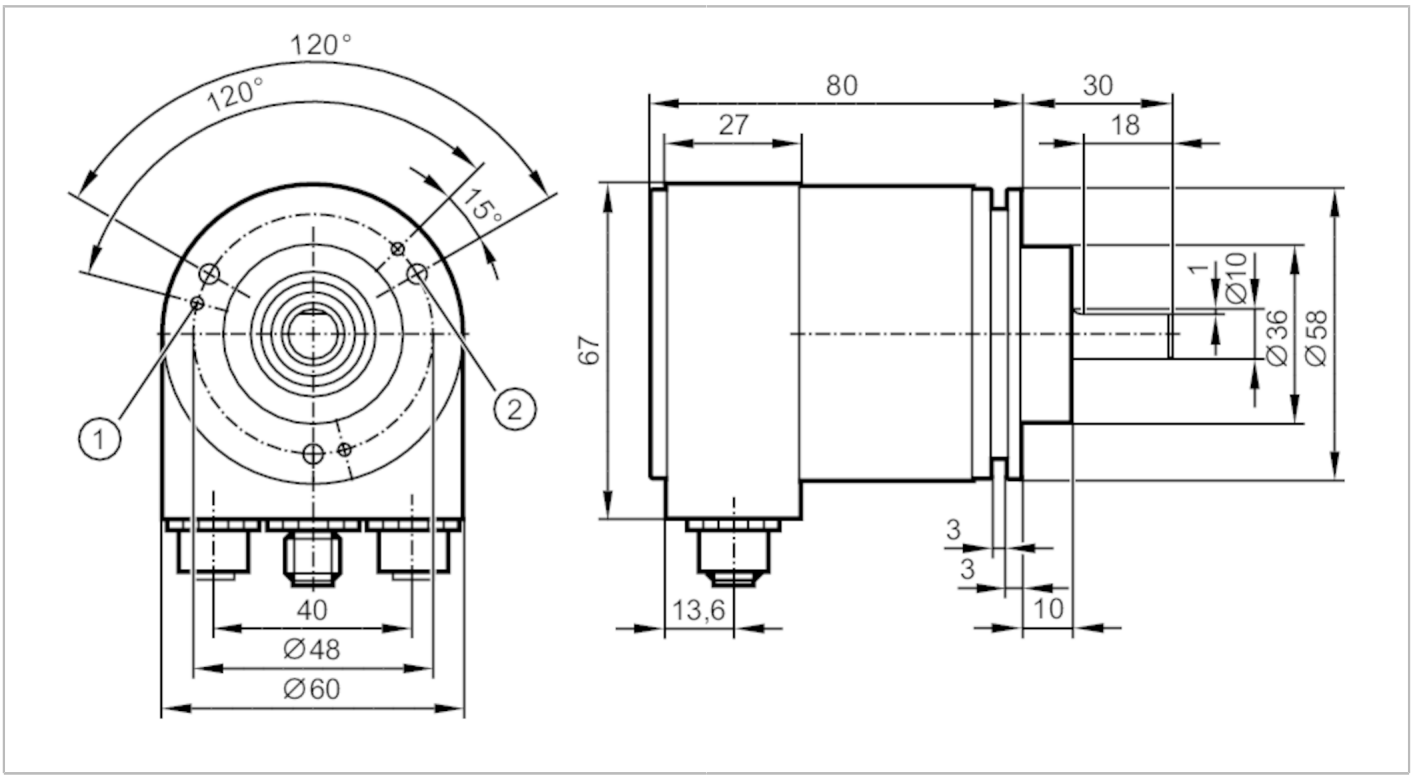
RM3011

Absolute multiturn encoder with solid shaft

RM-0025-D24/E-U



CE

Product characteristics		
Resolution		8192 steps; 4096 revolutions; 25 bit
Communication interface		ProfiNet-IO
Shaft design		solid shaft
Shaft diameter	[mm]	10
Application		
Function principle		absolute
Revolution type		multiturn
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	100; ((24 V))
Reverse polarity protection		yes
Outputs		
Code		binary
Measuring/setting range		
Resolution		8192 steps; 4096 revolutions; 25 bit
Software / programming		
Parameter setting options		resolution per revolution; total resolution; Direction of rotation; preset value; provision of a speed value; IP address
Addressing		Software
Interfaces		
Communication interface		ProfiNet-IO

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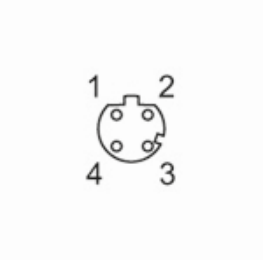
Operating conditions		
Ambient temperature	[°C]	-40...85
Max. relative air humidity	[%]	98
Protection		IP 67; (on the housing: IP 67; on the shaft: IP 67)

Tests / approvals			
Shock resistance			30 g (11 ms)
Vibration resistance			10 g (10...1000 Hz)
MTTF	[years]	65	

Mechanical data		
Weight	[g]	557.5
Dimensions	[mm]	Ø 58 / L = 110
Material		aluminum
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

Electrical connection - Ethernet

Connector: 1 x M12



1	Tx +
2	Rx +
3	Tx -
4	Rx -

Electrical connection - voltage supply

Connector: 1 x M12

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1	10...30 V DC
2	not used
3	GND 0 V
4	not used