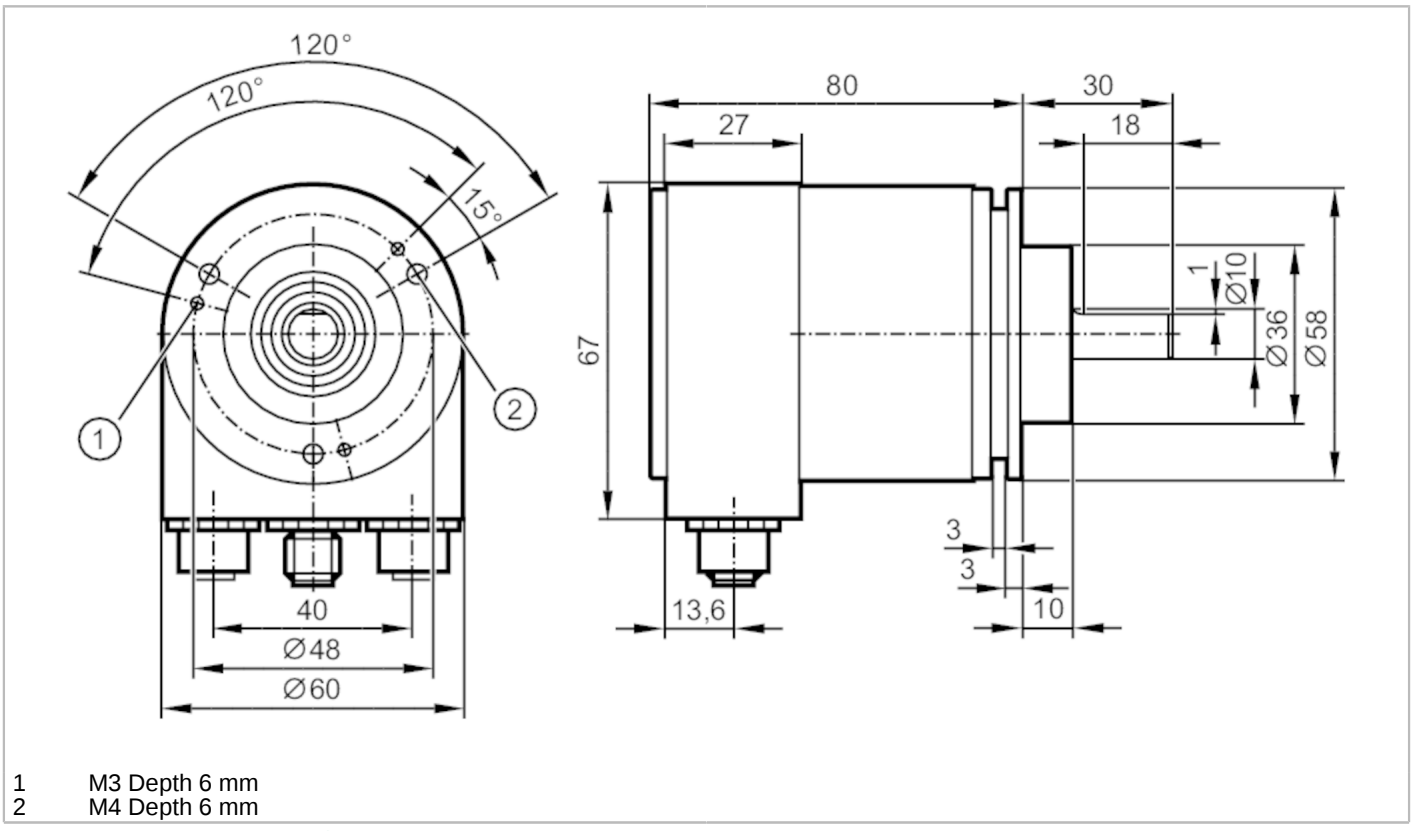
RM3011

Absolute multiturn encoder with solid shaft

RMV10FRU41312bPRN



1 M3 Depth 6 mm
2 M4 Depth 6 mm

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

RM3011

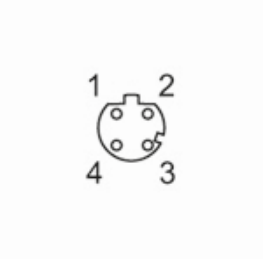
Absolute multiturn encoder with solid shaft

RMV10FRU41312bPRN

Interfaces		
Communication interface		ProfiNet-IO
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]	95
Mechanical data		
Weight	[g]	558
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; coding: D



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

RM3011

Absolute multiturn encoder with solid shaft

RMV10FRU41312bPRN

Electrical connection - voltage supply

Connector: 1 x M12; coding: A

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