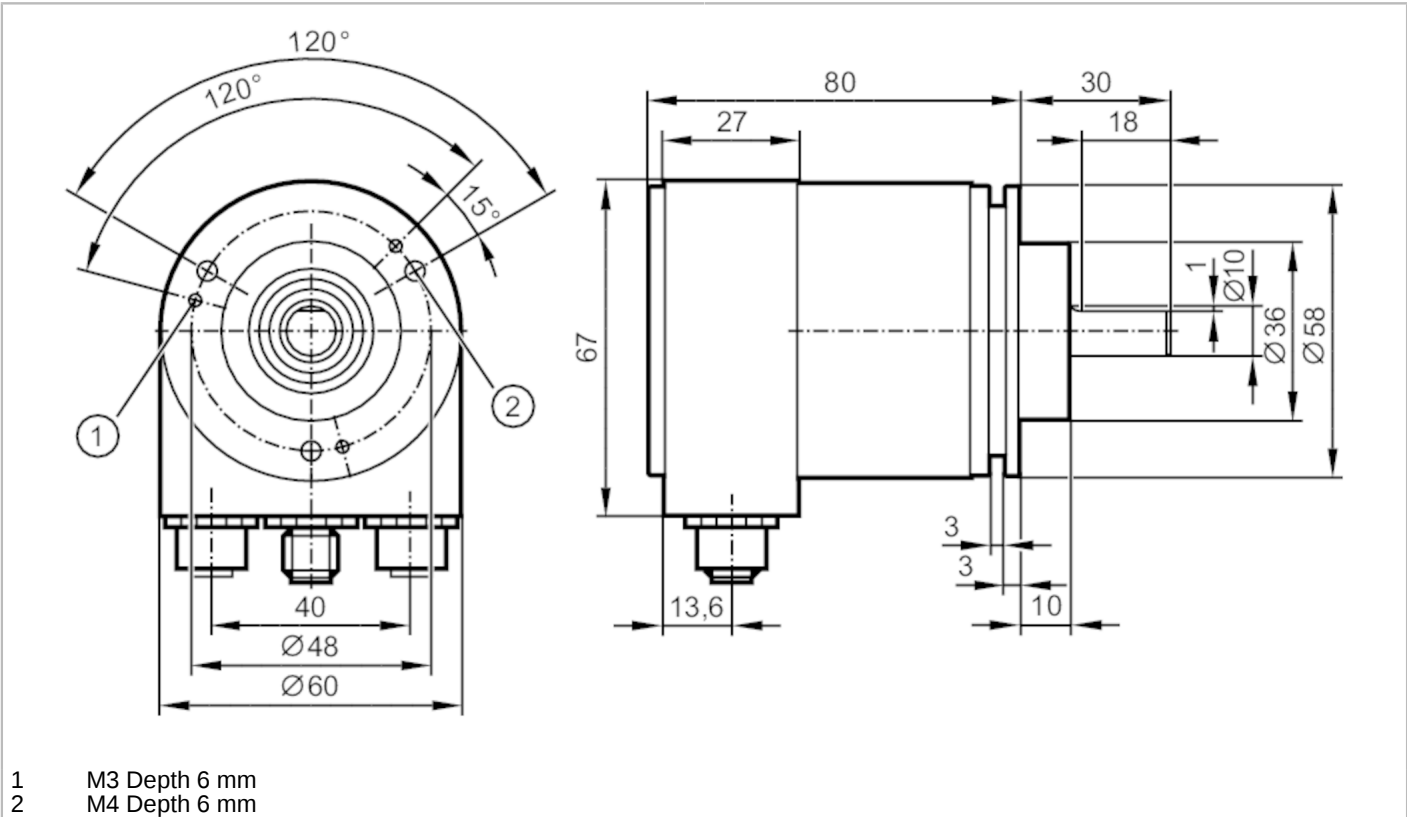


RM3011



Absolute multiturn encoder with solid shaft

RMV10FRU41312bPRN



Product characteristics

Resolution	8192 steps; 4096 revolutions; 25 bit
Communication interface	ProfiNet-IO; PROFINET encoder profile V4.2
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

Short-circuit protection	yes
Code	binary

Measuring/setting range

Resolution	8192 steps; 4096 revolutions; 25 bit
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Accuracy / deviations

14 - 16 Bits	
Accuracy [°]	0.0439



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<13 Bits		
Accuracy	[°]	0.022
Software / programming		
Parameter setting options	resolution per revolution; total resolution; direction of rotation; preset value; provision of a speed value; IP address; MRP; MRPD; rotational axis	
Addressing	Software	
Interfaces		
Communication interface	ProfiNet-IO; PROFINET encoder profile V4.2	
Operating conditions		
Ambient temperature	[°C]	-40...85
Storage temperature	[°C]	-40...85
Max. relative air humidity	[%]	98; (condensation not permissible)
Protection	IP 67; (on the housing: IP 67; on the shaft: IP 67)	
Tests / approvals		
Shock resistance	DIN EN 60068-2-27	100 g (6 ms) / half-sine
Continuous shock resistance	DIN EN 60068-2-29	10 g (16 ms) / half-sine
Vibration resistance	DIN EN 60068-2-6	20 g (20...1000 Hz)
MTTF	[years]	95
Mechanical data		
Weight	[g]	558
Dimensions	[mm]	Ø 58 / L = 110
Materials	aluminium	
Max. revolution, mechanical [U/min]	3000	
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 -	

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Electrical connection - power supply

Connector: 1 x M12; coding: A



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