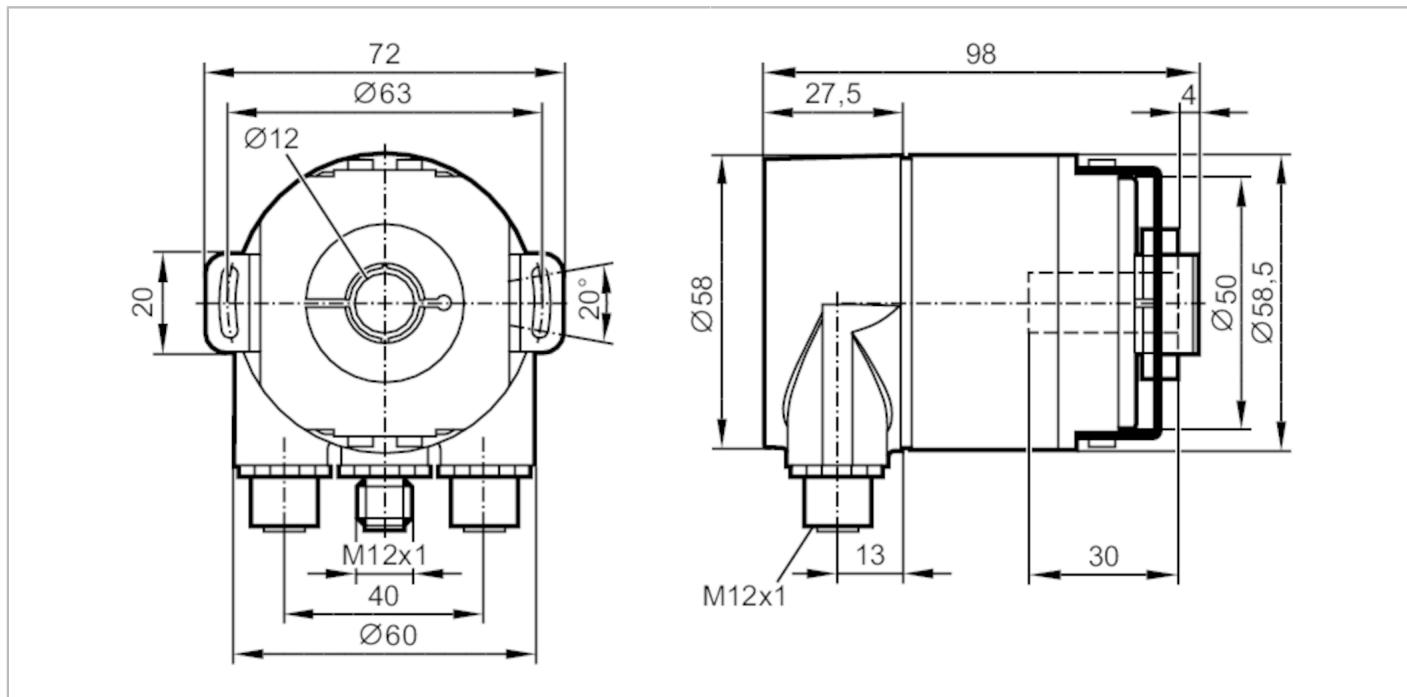


RM3010

Absolute multiturn encoder with hollow shaft

RMO12BRU41312bPRN



CE UK
CA

Product characteristics

Resolution	8192 steps; 4096 revolutions; 25 bit
Communication interface	ProfiNet-IO; PROFINET encoder profile V4.2
Shaft design	hollow shaft open to one side
Shaft diameter [mm]	12

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
<13 Bits	
Accuracy [°]	0.022

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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
Continuous shock resistance		DIN EN 60068-2-29
Vibration resistance		DIN EN 60068-2-6
MTTF	[years]	95
Mechanical data		
Weight	[g]	601
Dimensions	[mm]	Ø 58.5 / L = 98
Materials		aluminium; clamping ring: brass
Max. revolution, mechanical	[U/min]	3000
Shaft design		hollow shaft open to one side
Shaft diameter	[mm]	12
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		Stator coupling
Electrical connection - Ethernet		
Connector:	1 x M12	coding: D
		
1	Tx +	
2	Rx +	
3	Tx -	
4	Rx -	

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Absolute multturn encoder with hollow shaft

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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