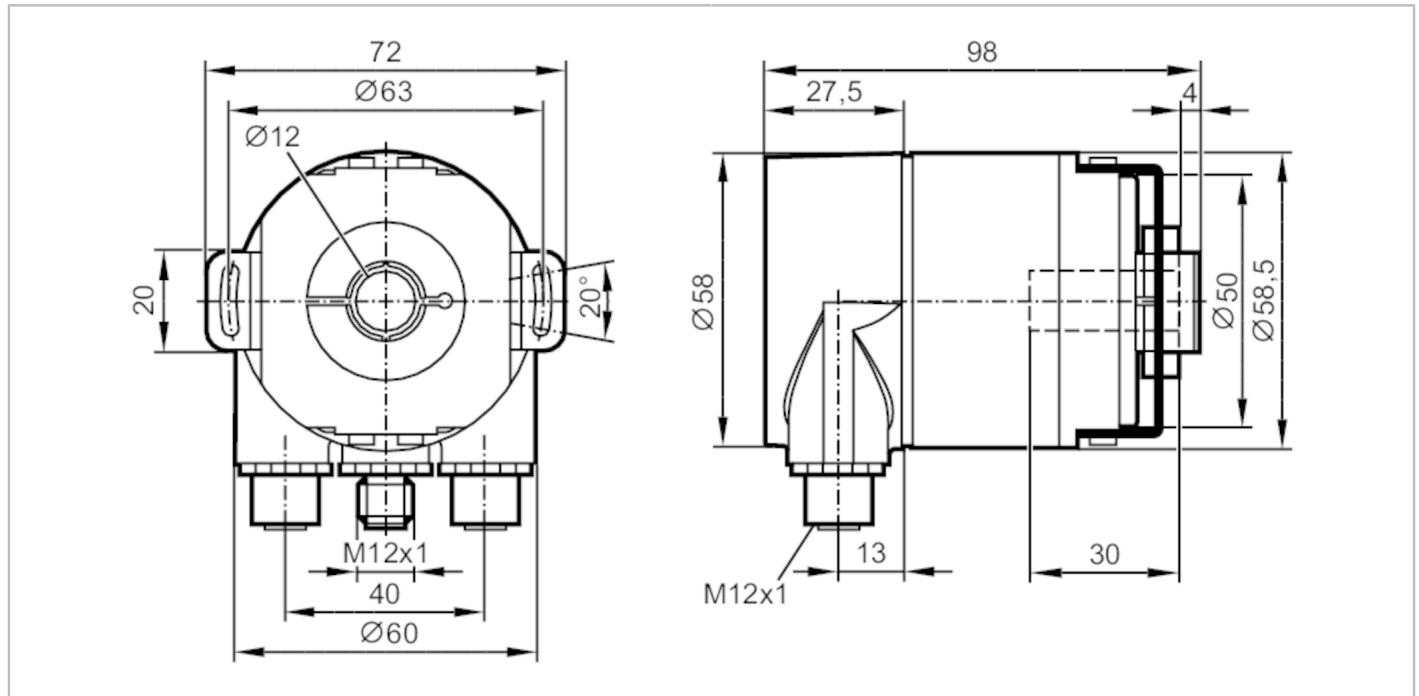


RM3010



Absolute multiturn encoder with hollow shaft

RMO12BRU41312bPRN



Product characteristics	
Resolution	8192 steps; 4096 revolutions; 25 bit
Communication interface	ProfiNet-IO
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	
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
Operating conditions	
Ambient temperature [°C]	-40...85



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Max. relative air humidity [%]	98
Protection	IP 67; (on the housing: IP 67; on the shaft: IP 67)

Tests / approvals

Shock resistance	100 g (6 ms)
Vibration resistance	10 g (10...1000 Hz)
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]	12000
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 -

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