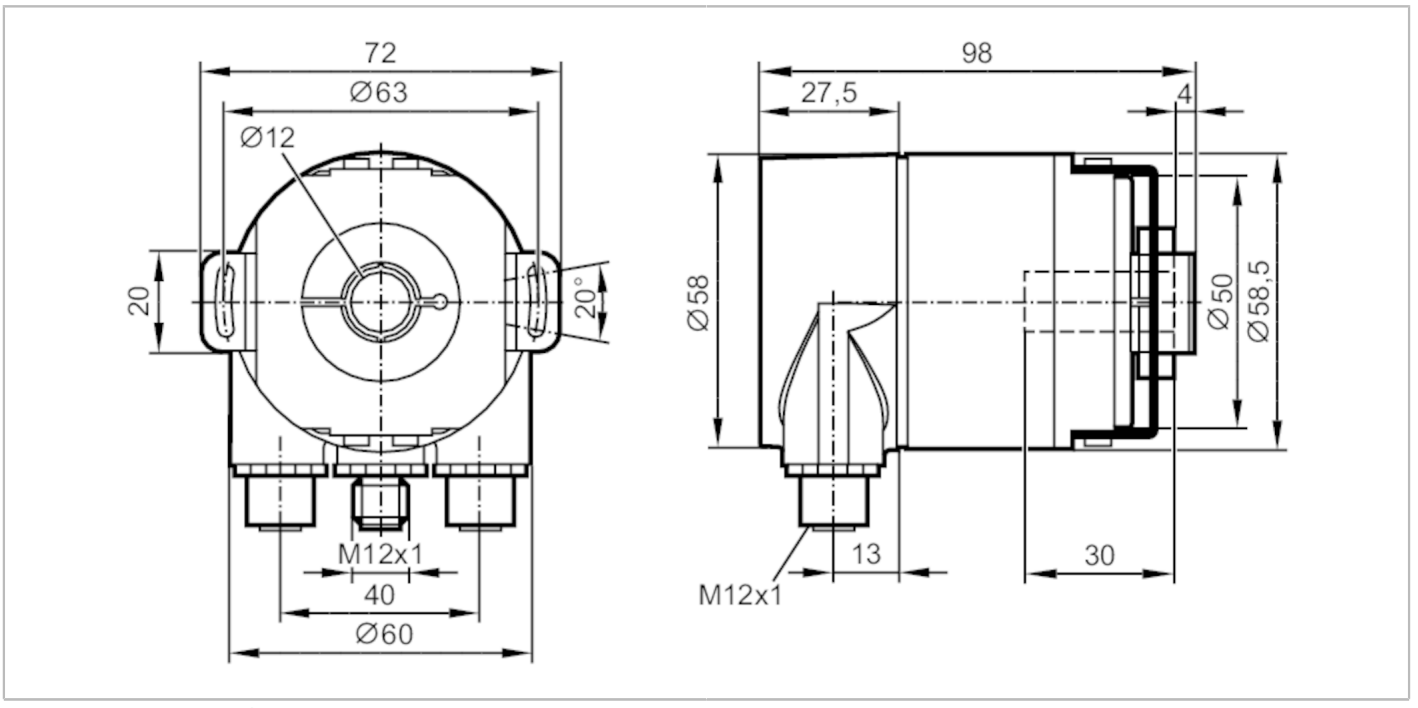
RM3010

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

RM3010

Absolute multiturn encoder with hollow shaft

RMO12BRU41312bPRN

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

Tests / approvals

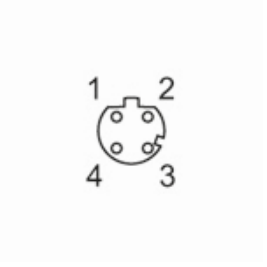
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (10...1000 Hz)
MTTF	[years]	95

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

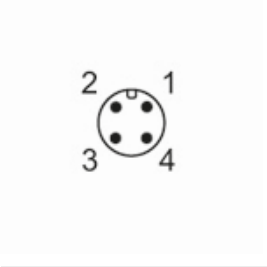
Connector: 1 x M12; coding: D



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