

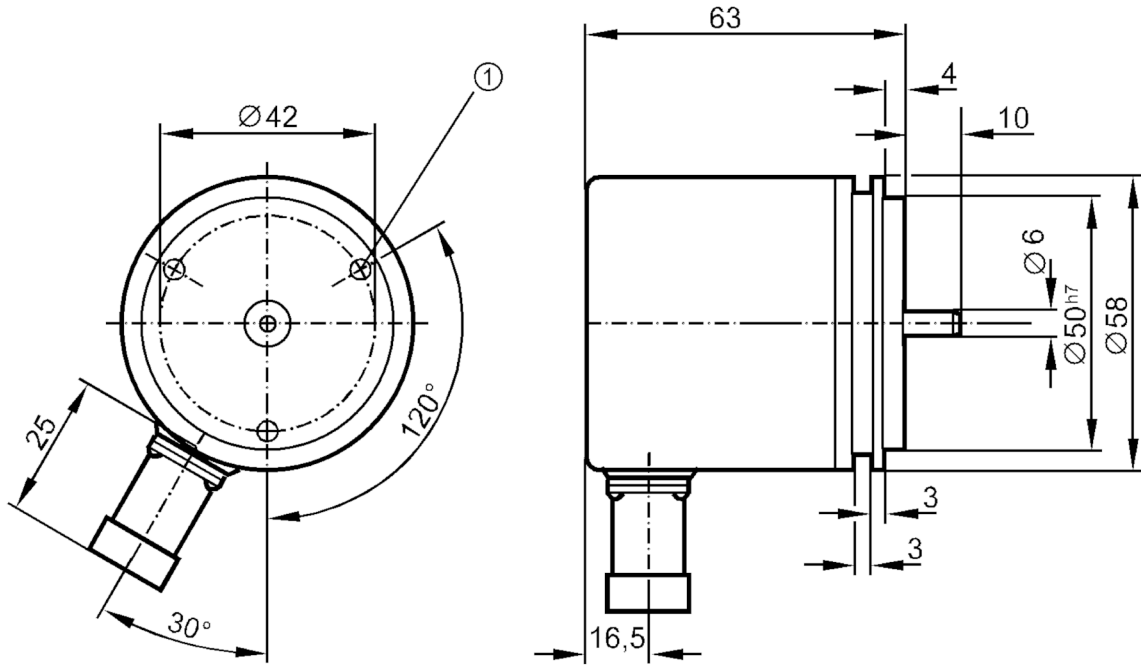
RM6112



Absolute multiturn encoder with solid shaft

RM-4096-S24/B A

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1 M4 Depth 6 mm



Product characteristics

Resolution	4096 steps; 4096 revolutions; 24 bit
Communication interface	SSI data interface
Shaft design	solid shaft
Shaft diameter [mm]	6

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 200
Max. revolution electrical	[U/min]	6000

Outputs

Code	Gray code; (increasing code values when turned clockwise (seen on the shaft))
Code signal	data input; TTL-compatible signals; clock and clock (inv.) from drivers to RS 485; data output; synchronous serial; TTL-compatible signals, data, and data (inv.)

Measuring/setting range

Resolution	4096 steps; 4096 revolutions; 24 bit
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Interfaces

Communication interface	SSI data interface
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Operating conditions

Ambient temperature	[°C]	-20...85
Storage temperature	[°C]	-30...100
Protection		IP 64



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Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)
Mechanical data		
Materials		aluminium
Max. revolution, mechanical [U/min]		10000
Max. starting torque [Nm]		1
Reference temperature torque [°C]		20
Shaft design		solid shaft
Shaft diameter [mm]		6
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end) [N]		10
Max. shaft load radial (at the shaft end) [N]		20
Remarks		
Remarks	Wires/pins not connected (n.c.) must not be used.	
Electrical connection		
Connector: 1 x, radial; Maximum cable length: 100 m		
1	0V Un	
2	data	
3	clock	
4	n.c.	
5	n.c.	
6	n.c.	
7	n.c.	
8	+ Ub	
9	n.c.	
10	data inverted	
11	clock inverted	
12	n.c.	
Diagrams and graphs		
Pulse diagram	clock data	