

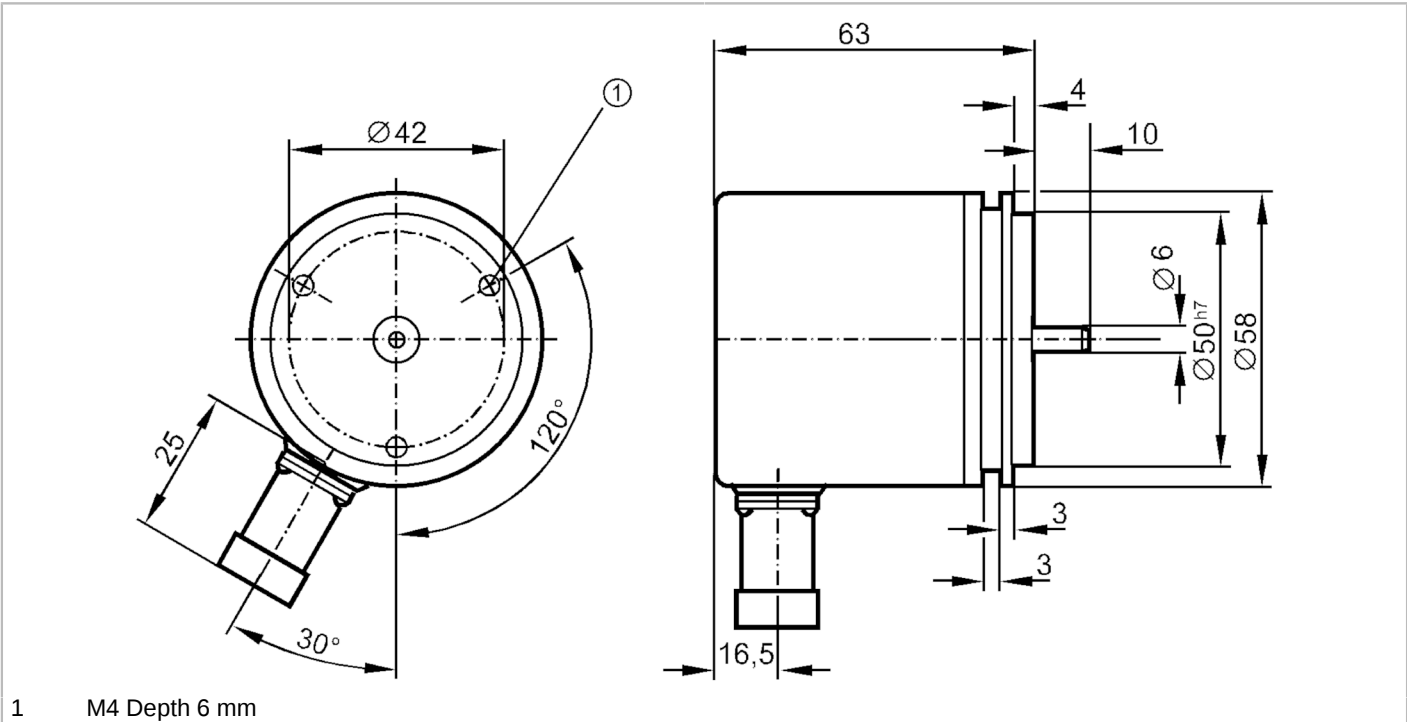
RM6112



Absolute multiturn encoder with solid shaft

RM-4096-S24/B A

Article no longer available - archive entry



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 signal 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

Material	aluminum
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.
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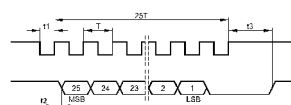
Electrical connection

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