

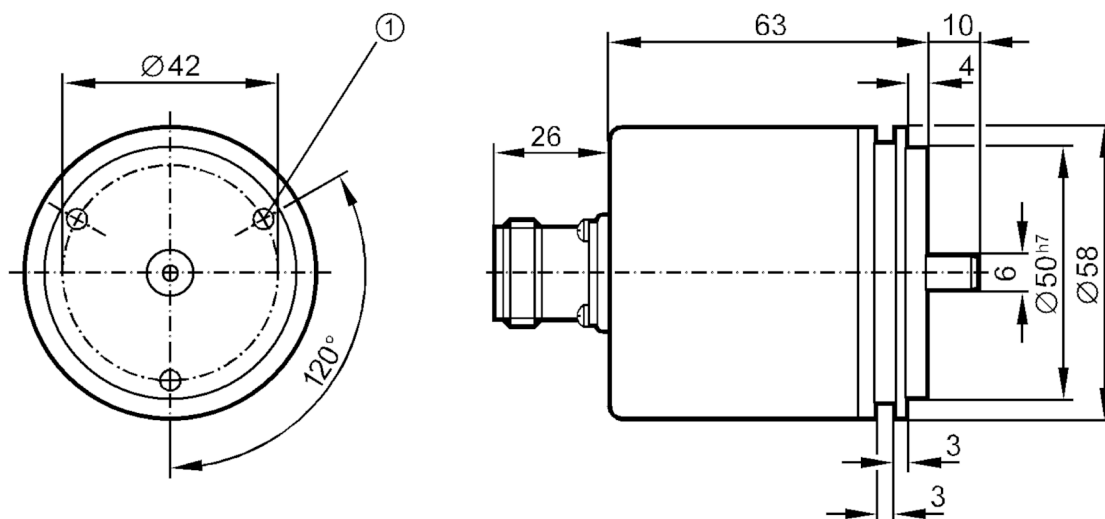
RM6108



Absolute multiturn encoder with solid shaft

RM-8192-S24/J A

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1 M4 Depth 6 mm



Product characteristics

Resolution	8192 steps; 4096 revolutions; 25 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.); incremental signals; 2 sinusoidal incremental signals (A and B) ; phase shifted by 90°; 1 Vss 512 signal periods per revolution

Measuring/setting range

Resolution	8192 steps; 4096 revolutions; 25 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...80

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Protection	IP 64
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Tests / approvals

Shock resistance	100 g (6 ms)
Vibration resistance	10 g (55...2000 Hz)

Mechanical data

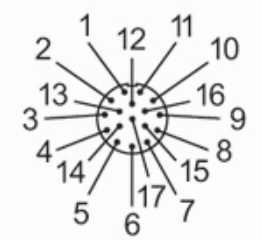
Materials	aluminium
Max. revolution, mechanical [U/min]	12000
Max. starting torque [Nm]	1
Reference temperature torque [°C]	20
Shaft design	solid shaft
Shaft diameter [mm]	6
Shaft material	steel (1.4104)
Max. shaft load axial (at the shaft end) [N]	10
Max. shaft load radial (at the shaft end) [N]	20

Remarks

Remarks	Wires/pins not connected (n.c.) must not be used.
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Electrical connection

Connector: 1 x M23 (ifm 1001.11), axial; Maximum cable length: 100 m



1	n.c.
2	n.c.
3	n.c.
4	n.c.
5	n.c.
6	n.c.
7	L+ Up
8	clock
9	clock inverted
10	0v Un
11	housing
12	B (+)
13	B (-)
14	data
15	A (+)
16	A (-)
17	data inverted

RM6108

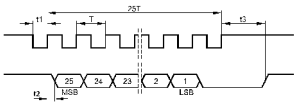


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Diagrams and graphs

Pulse diagram



clock
data