

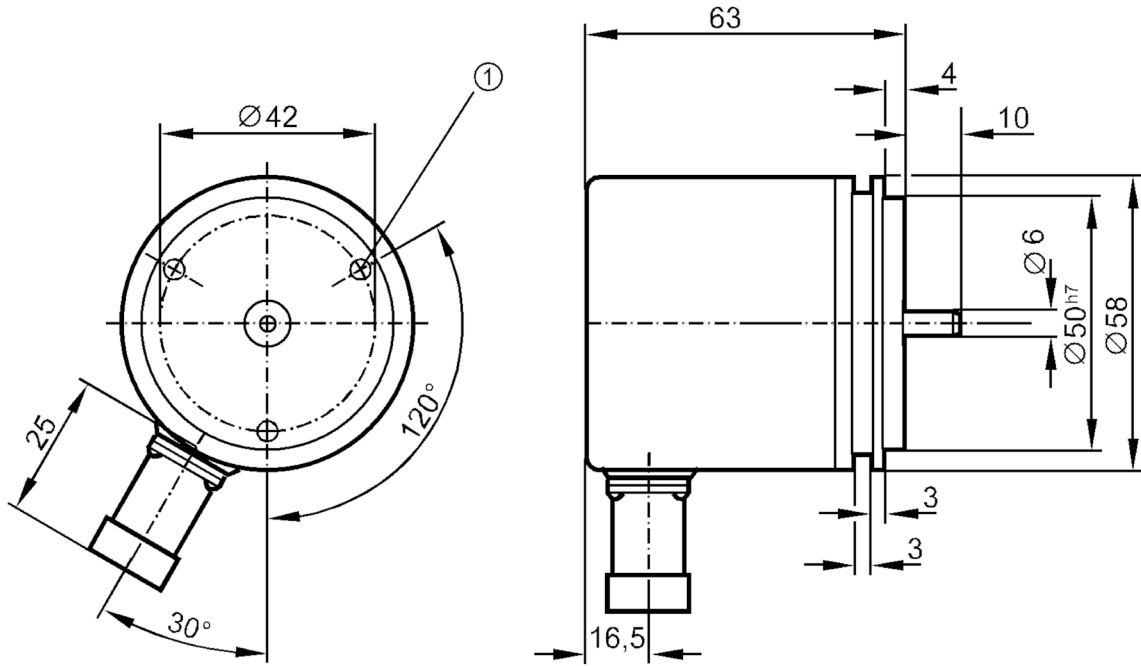
RM6115



Absolute multiturn encoder with solid shaft

RM-4096-S24/S A

Article no longer available - archive entry



1 M4 Depth 5 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]	< 250
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	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

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Protection	IP 64
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Tests / approvals

Shock resistance	100 g (6 ms)
Vibration resistance	15 g (55...2000 Hz)

Mechanical data

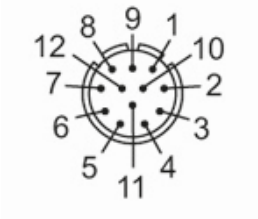
Materials	aluminium
Max. revolution, mechanical [U/min]	10000
Max. starting torque [Nm]	1
Reference temperature torque [°C]	20
Shaft design	solid shaft
Shaft diameter [mm]	6
Shaft material	steel (1.4104)
Max. shaft load axial (at the shaft end) [N]	10
Max. shaft load radial (at the shaft end) [N]	20

Remarks

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

Connector: 1 x M23 (ifm 1001.4), radial; Maximum cable length: 100 m



1	clock inverted
2	clock
3	data
4	data inverted
5	n.c.
6	n.c.
7	n.c.
8	n.c.
9	n.c.
10	n.c.
11	10...30V
12	0V

Diagrams and graphs

Pulse diagram	clock data
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