

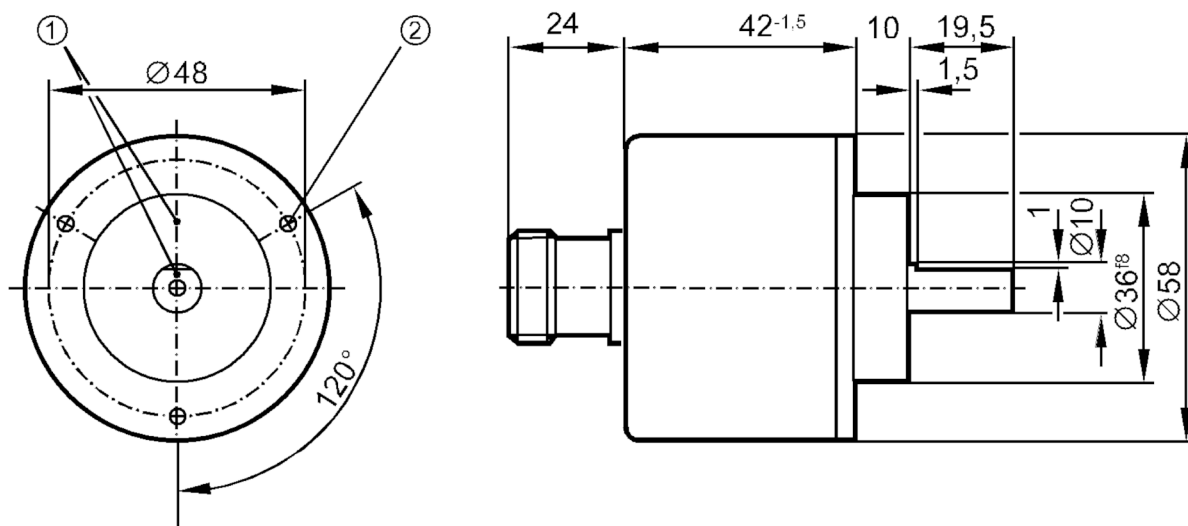
RV1048

Incremental encoder with solid shaft

RV-0500-105/J



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- 1 reference mark
2 M3 Depth 5 mm



Product characteristics

Resolution	500 resolution
Shaft design	solid shaft
Shaft diameter [mm]	10

Electrical data

Operating voltage tolerance [%]	10
Operating voltage [V]	5 DC
Current consumption [mA]	150

Outputs

Electrical design	TTL
Max. current load per output [mA]	20
Switching frequency [kHz]	300
Phase difference A und B [°]	90

Measuring/setting range

Resolution	500 resolution
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Operating conditions

Ambient temperature [°C]	-30...100
Storage temperature [°C]	-30...100
Max. relative air humidity [%]	98
Protection	IP 64

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Tests / approvals

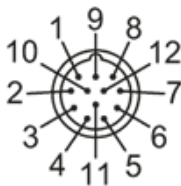
Shock resistance	100 g (6 ms)
Vibration resistance	15 g (55...2000 Hz)

Mechanical data

Dimensions [mm]	Ø 58 / L = 95.5
Material	aluminum
Max. revolution, mechanical [U/min]	12000
Max. starting torque [Nm]	1
Reference temperature torque [°C]	20
Shaft design	solid shaft
Shaft diameter [mm]	10
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

Electrical connection

Connector: 1 x M23 (ifm 1001.4), axial



1	B inverted
2	L+ sensor
3	0 index
4	0 index inverted
5	A
6	A inverted
screen	housing
7	error inverted
8	B
9	n.c.
10	0V (Un)
11	0V sensor
12	L+

Diagrams and graphs

Pulse diagram

Direction of rotation clockwise (looking at the shaft)