

RV6021

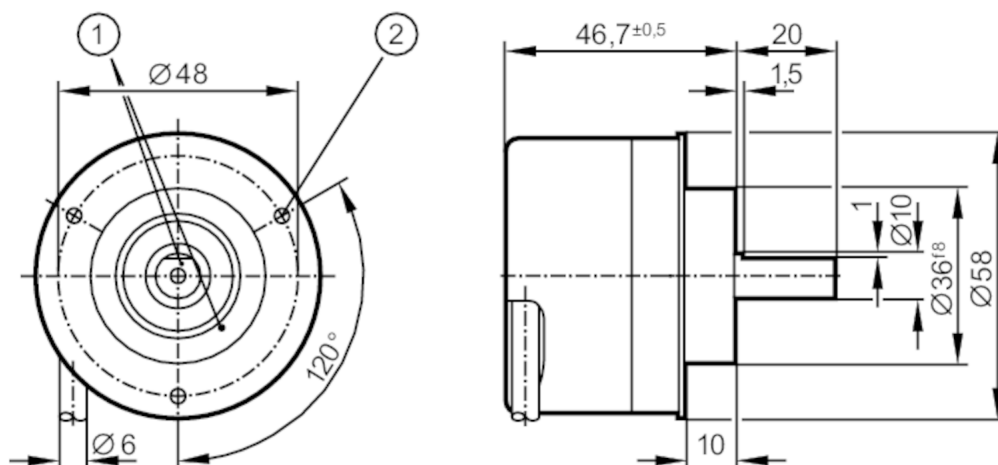
Incremental encoder with solid shaft

RV-0720-I24/L2



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- 1 reference mark
- 2 M3 Depth 5 mm



Application

Function principle incremental

Electrical data

Operating voltage [V] 10...30 DC

Current consumption [mA] < 150

Outputs

Electrical design HTL

Max. current load per output [mA] 50

Switching frequency [kHz] 300

Type of short-circuit protection < 60 s

Phase difference A und B [°] 90

Measuring/setting range

Resolution 720 resolution

Operating conditions

Ambient temperature [°C] -40...100

Note on ambient temperature for firmly laid cable: -40 °C

Max. relative air humidity [%] 98

Protection IP 64; (on the housing: IP 67; on the shaft: IP 64)

Tests / approvals

Shock resistance 200 g

Vibration resistance 30 g

MTTF [years] 190



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Mechanical data		
Weight	[g]	459.4
Dimensions	[mm]	Ø 58 / L = 46.7
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]	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

Remarks	
Notes	discontinued article

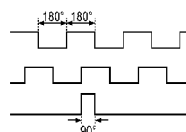
Electrical connection

Cable: 2 m, PUR; Maximum cable length: 300 m; radial, can also be used axially

brown	A
green	A inverted
grey	B
pink	B inverted
red	0 index
black	0 index inverted
blue	L+ sensor
white	0V sensor
brown/green	L+ (Up)
white/green	0V (Un)
lilac	failure inverted
screen	housing

Diagrams and graphs

Pulse diagram



Output A

Output B

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