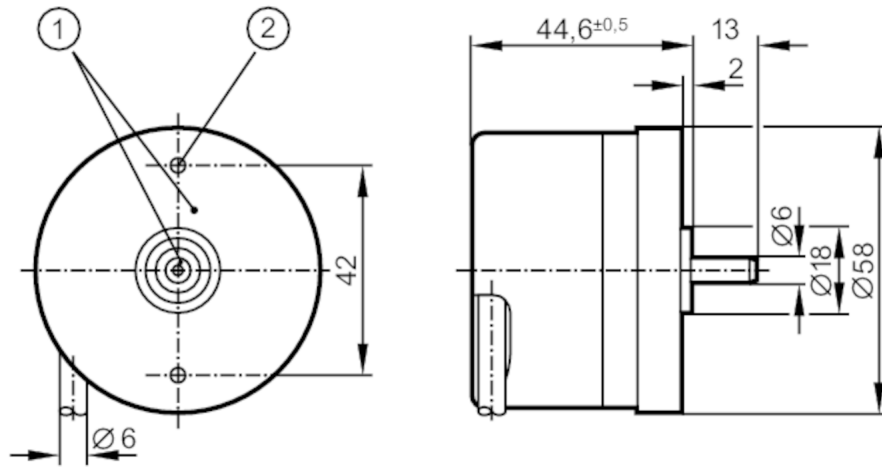


RC6003



Incremental encoder with solid shaft

RC-0100-I24/L2



- 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 100 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

RC6003



Incremental encoder with solid shaft

RC-0100-I24/L2

Mechanical data		
Weight	[g]	481.4
Dimensions	[mm]	Ø 58 / L = 44.6
Materials		aluminium
Max. revolution, mechanical	[U/min]	16000
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

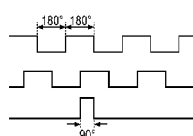
Remarks	
Notes	discontinued article

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 0 index
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