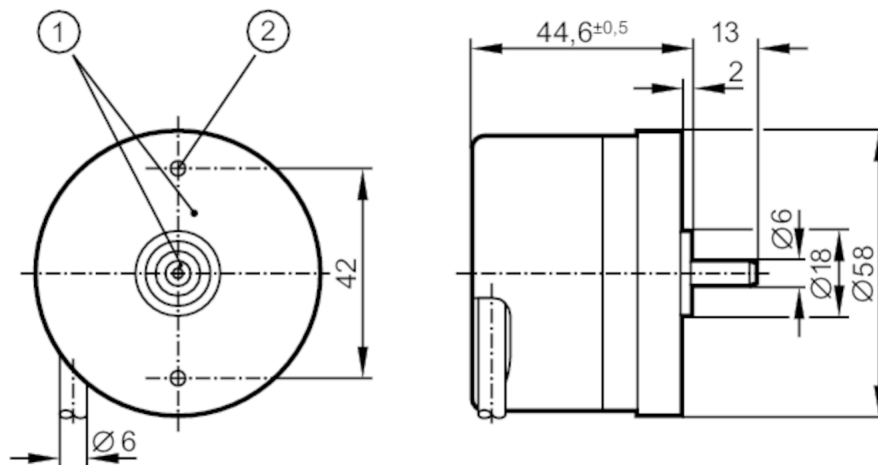




Incremental encoder with solid shaft

RC-0100-I24/L2

phase-out article



- 1 reference mark
2 M3 Depth 5 mm



Product characteristics

Resolution	100 resolution
Shaft design	solid shaft
Shaft diameter [mm]	6

Application

Function principle	incremental
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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 and B [°]	90

Measuring/setting range

Resolution	100 resolution
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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
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Incremental encoder with solid shaft

RC-0100-I24/L2

Vibration resistance		30 g
MTTF	[years]	190

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

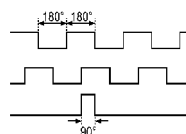
Electrical connection

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



direction of rotation clockwise (looking at the shaft)