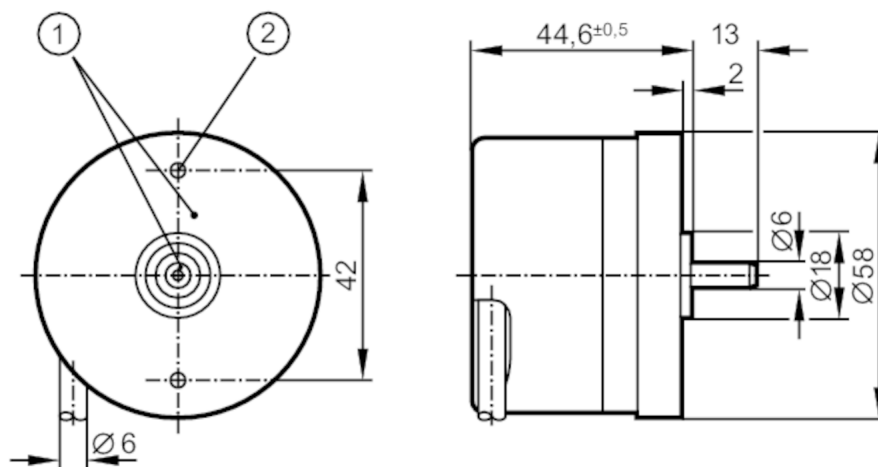




Article to be discontinued



- 1 reference mark
- 2 M3 Depth 5 mm



### Product characteristics

Resolution	500 resolution
Shaft design	solid shaft
Shaft diameter [mm]	6

### Application

Function principle	incremental
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### Electrical data

Operating voltage tolerance [%]	10
Operating voltage [V]	5 DC
Current consumption [mA]	< 120

### 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]	-40...100
Note on ambient temperature	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



## Incremental encoder with solid shaft

RC-0500-I05/L2

MTTF	[years]	190
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## Mechanical data

Weight	[g]	472
Dimensions	[mm]	Ø 58 / L = 44.6
Material		aluminum
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

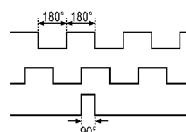
## Electrical connection

Cable: 2 m, PUR; Maximum cable length: 100 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	error inverted
screen	housing

## Diagrams and graphs

Pulse diagram



Direction of rotation clockwise (looking at the shaft)