

# RO6346



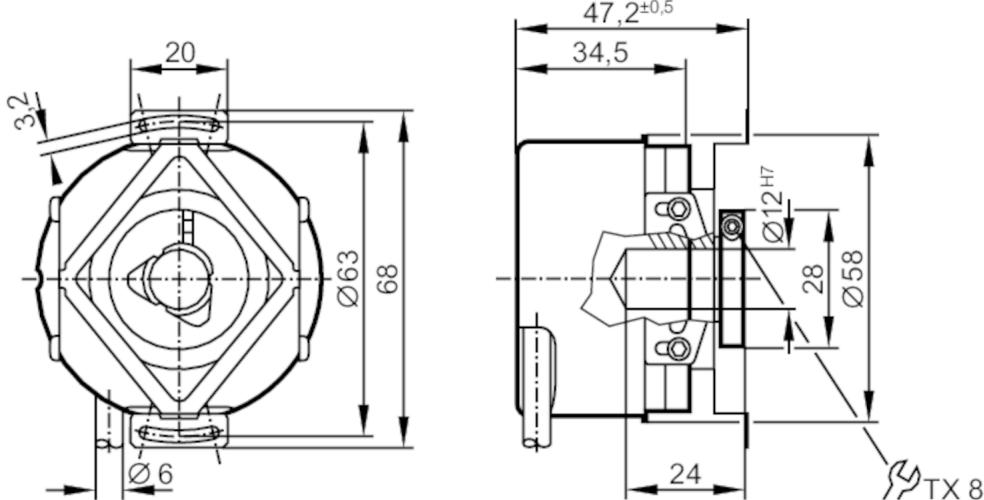
## Incremental encoder with hollow shaft

RO-2048-I24/N1U

Article no longer available - archive entry

Alternative articles: ROP521 + E12402

When selecting an alternative article and accessories please note that technical data may differ!



### Product characteristics

Resolution	2048 resolution
Shaft design	hollow shaft open to one side
Shaft diameter [mm]	12

### 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	2048 resolution
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### Operating conditions

Ambient temperature [°C]	-30...85
Note on ambient temperature	for firmly laid cable: -30 °C
Max. relative air humidity [%]	98

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Protection

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

### Tests / approvals

Shock resistance

200 g

Vibration resistance

30 g

### Mechanical data

Weight

[g]

450

Dimensions

[mm]

Ø 58 / L = 35.5

Materials

aluminium

Max. revolution, mechanical [U/min]

12000

Max. starting torque [Nm]

1

Reference temperature torque [°C]

20

Shaft design

hollow shaft open to one side

Shaft diameter [mm]

12

Shaft fit

H7

Shaft material

stainless steel

Installation depth of shaft [mm]

10

Max. axial shaft misalignment [mm]

1; (max. radial shaft alignment: ± 0,05 mm)

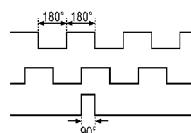
### Electrical connection

Cable: 1 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	10...30V sensor
white	0V sensor
brown/green	10...30V (Up)
white/green	0V (Un)
screen	housing
lilac	failure inverted

### Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)