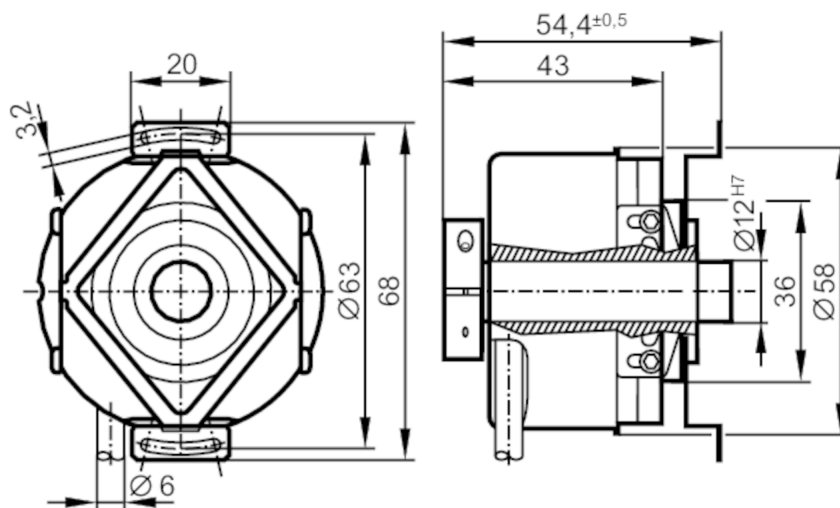


## Incremental encoder with hollow shaft

RO-3600-IO5/N1U

Article no longer available - archive entry



## Product characteristics

Resolution	3600 resolution
Shaft design	continuous hollow shaft
Shaft diameter [mm]	12

## Application

Function principle	incremental
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## Electrical data

Operating voltage tolerance [%]	10
Operating voltage [V]	5 DC
Current consumption [mA]	< 150

## Outputs

Electrical design	TTL
Max. current load per output [mA]	20
Switching frequency [kHz]	300
Phase difference A and B [°]	90

## Measuring/setting range

Resolution	3600 resolution
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## Operating conditions

Ambient temperature [°C]	-30...100
Storage temperature [°C]	-30...100
Max. relative air humidity [%]	75; (briefly: 95 %; condensation not permissible)
Protection	IP 64

## Tests / approvals

Shock resistance	100 g (6 ms)
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Vibration resistance	30 g (55...2000 Hz)
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### Mechanical data

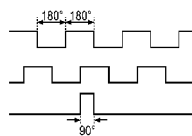
Weight [g]	450.4
Dimensions [mm]	Ø 58 / L = 54.4
Materials	aluminium
Max. revolution, mechanical [U/min]	12000; (when using both shaft clamping rings)
Max. starting torque [Nm]	2.5
Reference temperature torque [°C]	20
Shaft design	continuous hollow shaft
Shaft diameter [mm]	12
Shaft fit	H7
Shaft material	stainless steel
Installation depth of shaft [mm]	15...24
Max. axial shaft misalignment [mm]	1

### Electrical connection

Cable: 1 m, PUR; radial

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	 <p>direction of rotation clockwise (looking at the shaft)</p>
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