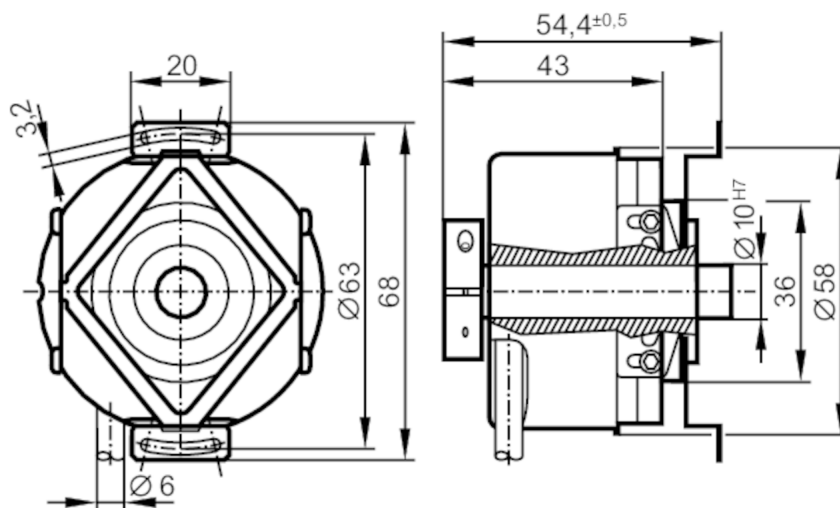


Incremental encoder with hollow shaft

RO-0100-I24/N11

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Product characteristics

Resolution	100 resolution
Shaft design	continuous hollow shaft
Shaft diameter [mm]	10

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]	-30...85
Note on ambient temperature	for firmly laid cable: -30 °C
Max. relative air humidity [%]	98
Protection	IP 64; (on the housing: IP 66; on the shaft: IP 64)



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Tests / approvals

Shock resistance	200 g
Vibration resistance	30 g

Mechanical data

Weight [g]	460
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]	10
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)

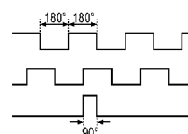
Electrical connection

Cable: 1 m, PUR; 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)
screen	housing
lilac	failure inverted

Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)