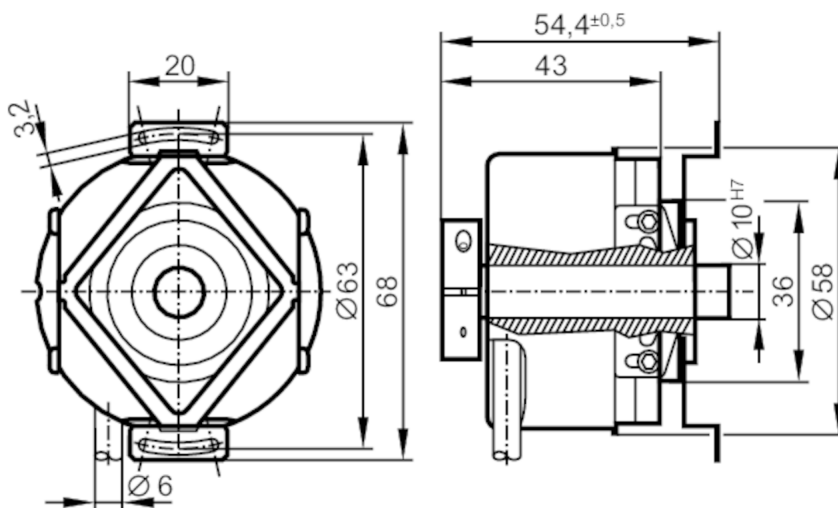


Incremental encoder with hollow shaft

RO-0360-I24/N11

phase-out article



Product characteristics

Resolution	360 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	360 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)



Incremental encoder with hollow shaft

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Tests / approvals		
Shock resistance		200 g
Vibration resistance		30 g
MTTF	[ANN]	190

Mechanical data		
Weight	[g]	451.6
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)

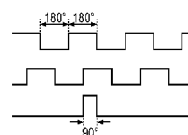
Electrical connection

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)