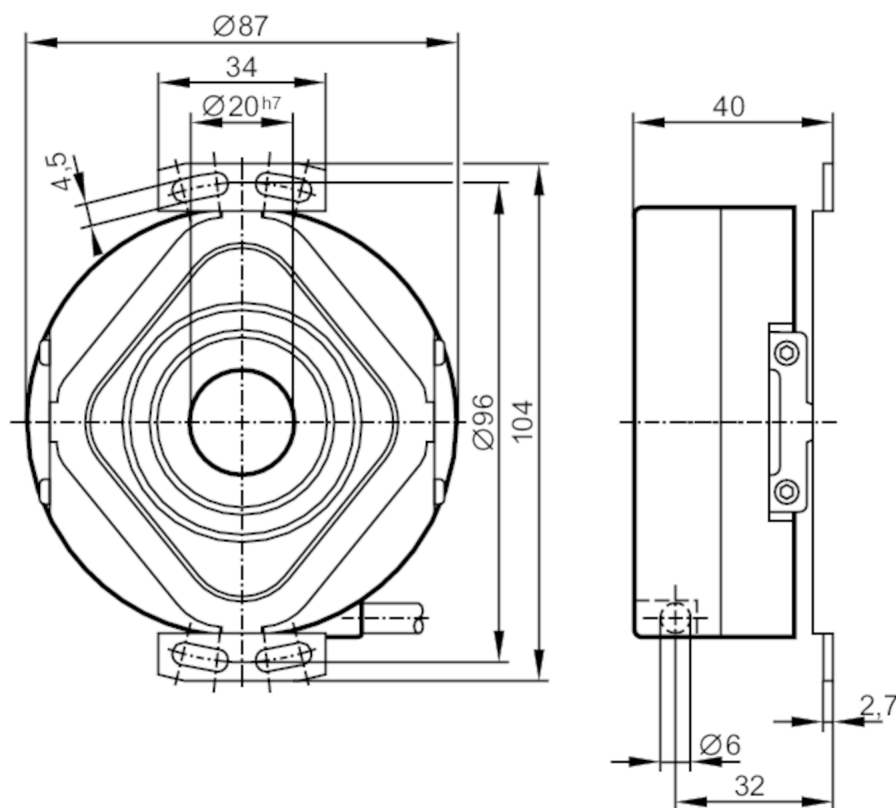


Incremental encoder with hollow shaft

RP-2500-I24/N10

phase-out article



Product characteristics

Resolution	2500 resolution
Shaft design	continuous hollow shaft
Shaft diameter [mm]	20

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]	160
Phase difference A and B [°]	90

Measuring/setting range

Resolution	2500 resolution
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Incremental encoder with hollow shaft

RP-2500-I24/N10

Operating conditions		
Ambient temperature	[°C]	-30...50
Note on ambient temperature		higher temperature upon request for the diagram see the installation instructions
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	75
Protection		IP 64

Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)
MTTF	[ANN]	57

Mechanical data		
Weight	[g]	890
Dimensions	[mm]	Ø 87 / L = 40
Materials		aluminium
Max. revolution, mechanical	[U/min]	6000
Max. starting torque	[Nm]	15
Reference temperature torque	[°C]	20
Shaft design		continuous hollow shaft
Shaft diameter	[mm]	20
Shaft fit		H7
Shaft material		steel (1.4104)
Installation depth of shaft	[mm]	> 46
Max. axial shaft misalignment	[mm]	1,5; (Only to compensate for installation tolerances and thermal expansion.; No dynamic movement allowed.)

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

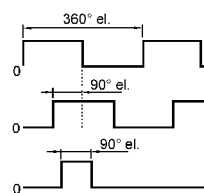


Incremental encoder with hollow shaft

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Diagrams and graphs

Pulse diagram



Output A

Output B

0 index