

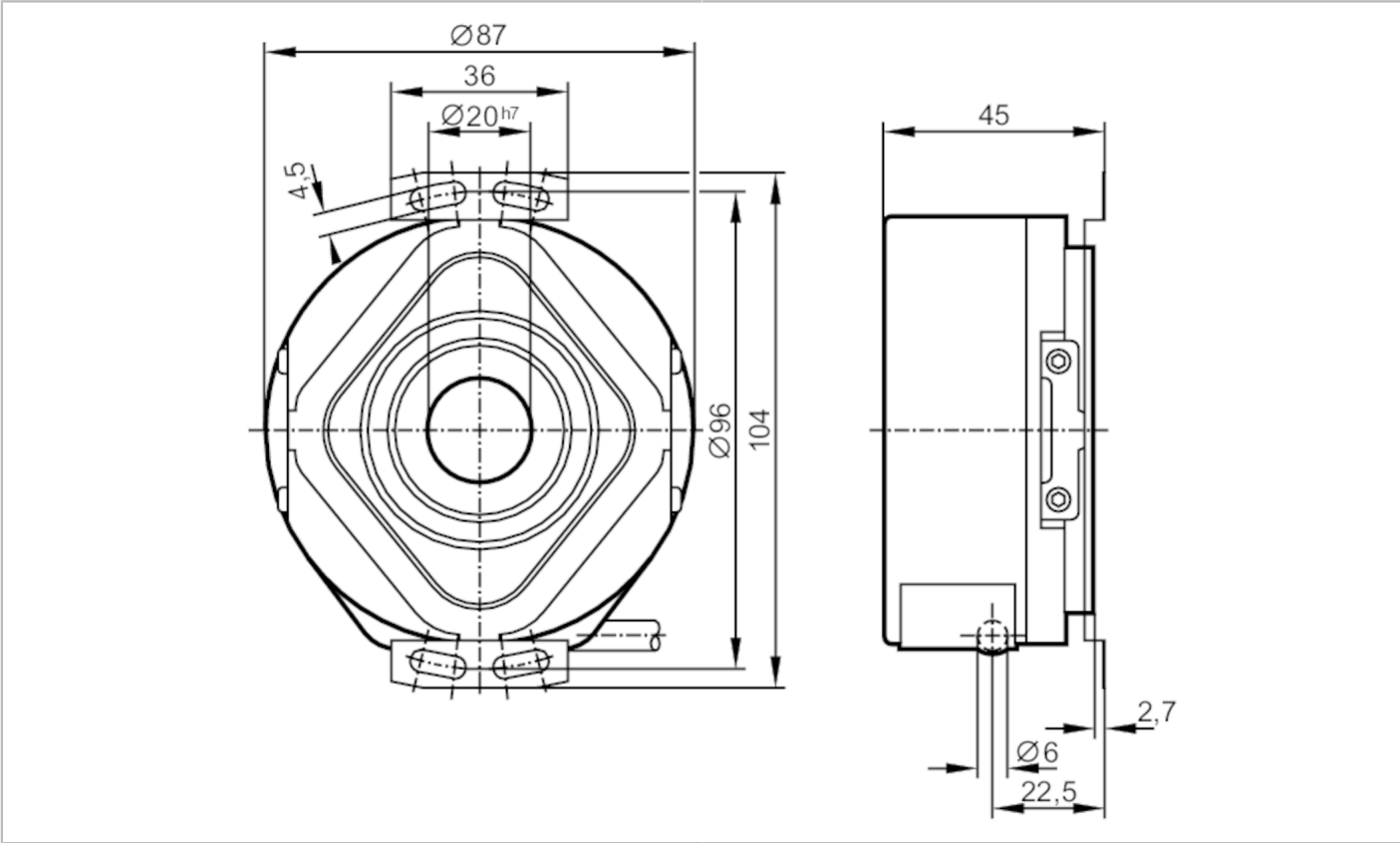
RP6308



Incremental encoder with hollow shaft

RP-1000-I24/N10

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Product characteristics		
Resolution		1000 resolution
Shaft design		continuous hollow shaft
Shaft diameter	[mm]	20
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		1000 resolution
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



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Max. relative air humidity [%]	98
Protection	IP 64

Tests / approvals

Shock resistance	100 g (6 ms)
Vibration resistance	10 g (55...2000 Hz)

Mechanical data

Dimensions [mm]	Ø 87 / L = 45
Materials	aluminium
Max. revolution, mechanical [U/min]	6000
Max. starting torque [Nm]	10
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]	10
Max. axial shaft misalignment [mm]	1,5

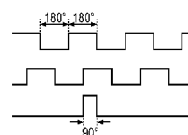
Electrical connection

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

Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)