

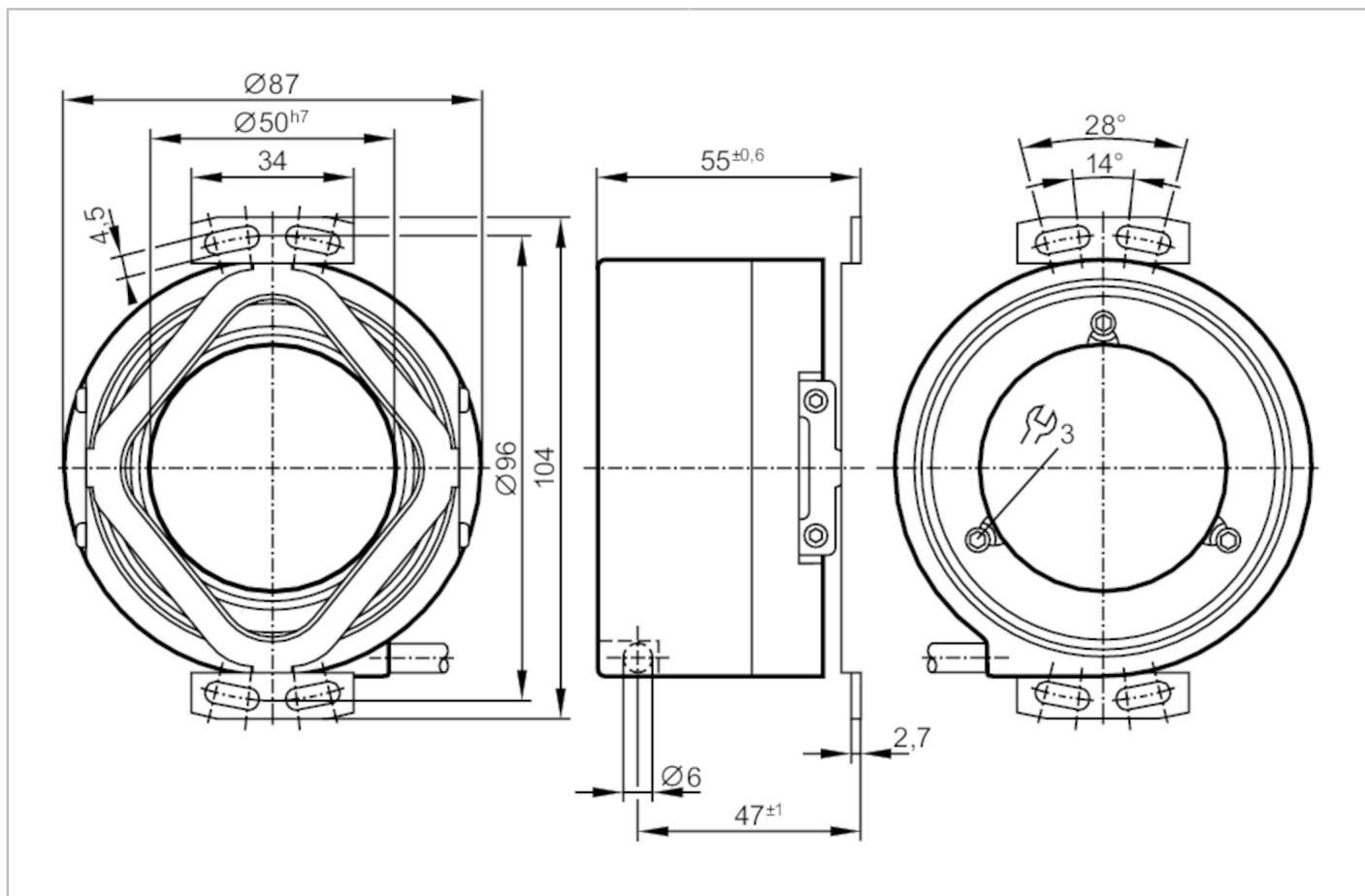
# RP6410



## Incremental encoder with hollow shaft

RP-1000-I24/N15

Article no longer available - archive entry



### Product characteristics

Resolution	1000 resolution
Shaft design	continuous hollow shaft
Shaft diameter [mm]	50

### 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
Phase difference A and B [°]	90

### Measuring/setting range

Resolution	1000 resolution
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### Operating conditions

Ambient temperature	[°C]	-30...65
Note on ambient temperature		higher temperature upon request for the diagram see the installation instructions
Max. relative air humidity	[%]	75; (briefly: 95 %; condensation not permissible)
Protection		IP 64

### Tests / approvals

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

### Mechanical data

Weight	[g]	946.8
Dimensions	[mm]	Ø 87 / L = 55
Materials		aluminium
Max. revolution, mechanical	[U/min]	4000
Max. starting torque	[Nm]	20
Reference temperature torque	[°C]	20
Shaft design		continuous hollow shaft
Shaft diameter	[mm]	50
Shaft fit		H7
Shaft material		steel (1.4104)
Max. axial shaft misalignment	[mm]	1,5; (Only to compensate for installation tolerances and thermal expansion.; No dynamic movement allowed.)

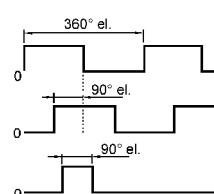
### Electrical connection

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

### Diagrams and graphs

Pulse diagram



Output A

Output B

0 index