

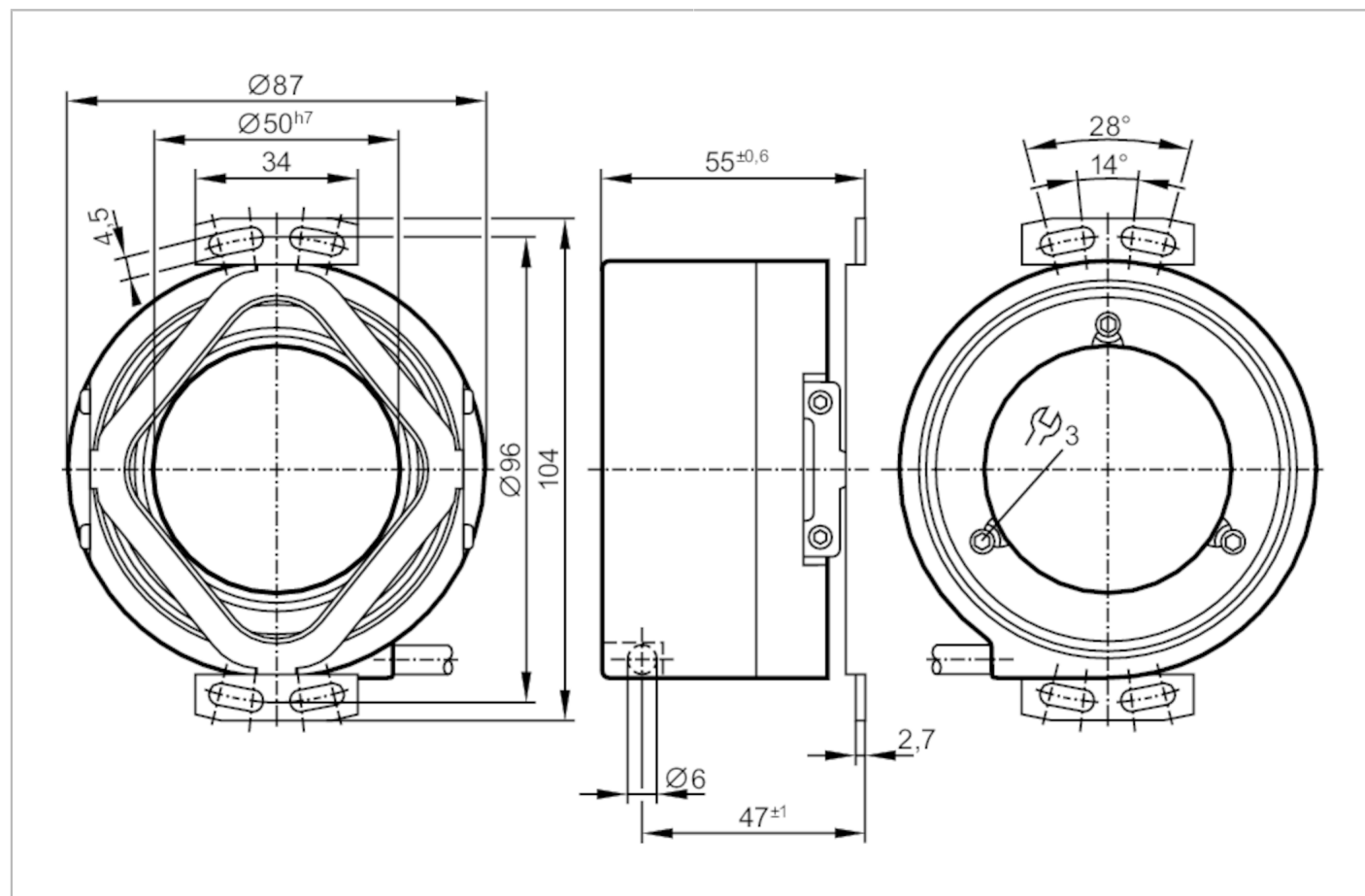
RP1410



Incremental encoder with hollow shaft

RP-1024-I05/N15

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Product characteristics

Resolution	1024 resolution
Shaft design	continuous hollow shaft
Shaft diameter [mm]	50

Electrical data

Operating voltage tolerance [%]	10
Operating voltage [V]	5 DC
Current consumption [mA]	< 150

Outputs

Electrical design	TTL
Max. current load per output [mA]	20
Switching frequency [kHz]	300
Phase difference A and B [°]	90

Measuring/setting range

Resolution	1024 resolution
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Operating conditions

Ambient temperature [°C]	-30...75
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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]	935
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	L+ sensor
white	0V sensor
brown/green	L+ (Up)
white/green	0V (Un)
lilac	failure inverted
screen	housing

Diagrams and graphs

Pulse diagram	Output A Output B 0 index
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