

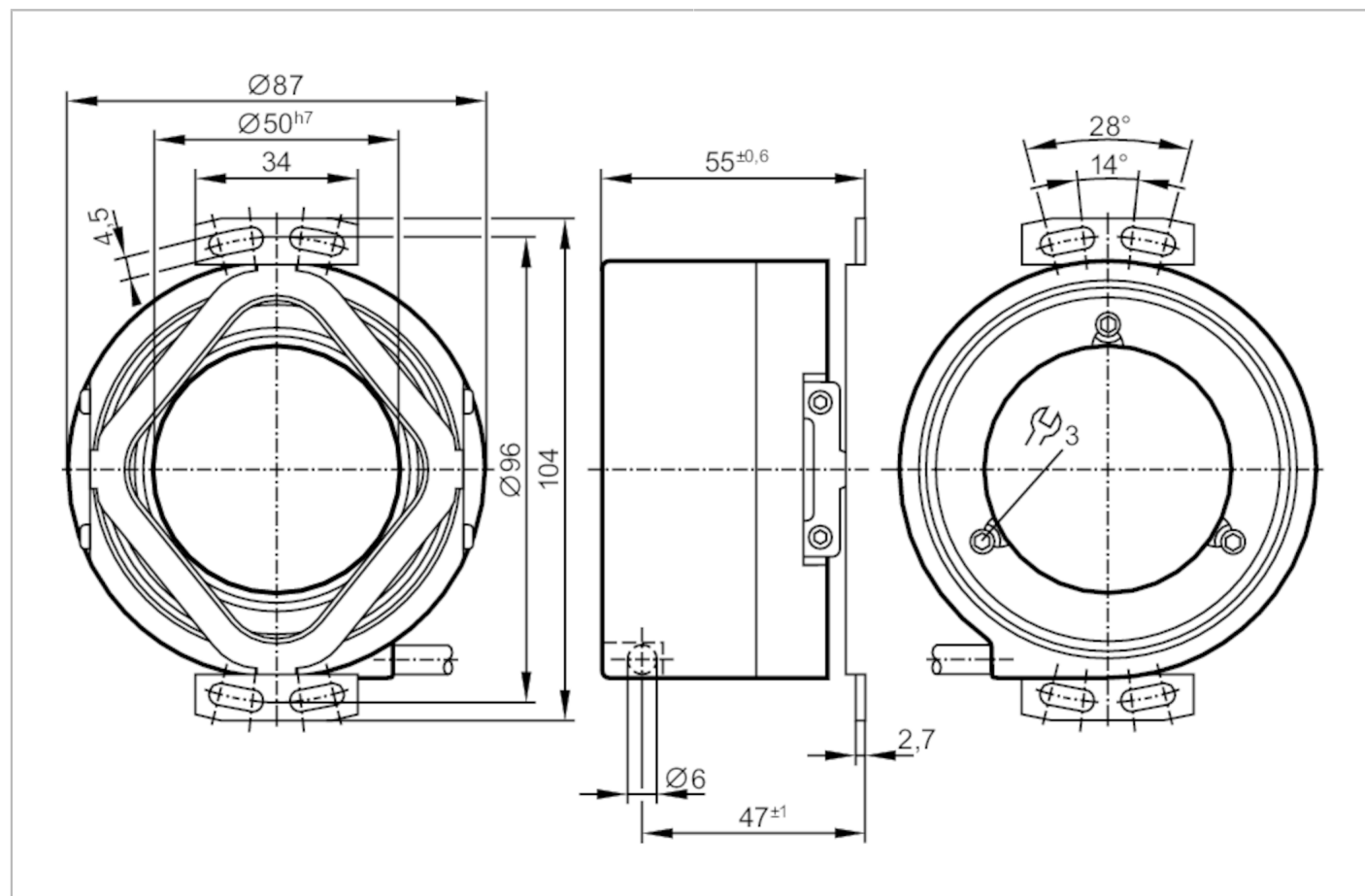
RP6413



Incremental encoder with hollow shaft

RP-3600-I24/N15

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Product characteristics

Resolution	3600 resolution
Shaft design	continuous hollow shaft
Shaft diameter [mm]	50

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
Short-circuit protection	yes
Type of short-circuit protection	< 60 s
Phase difference A und B [°]	90

Measuring/setting range

Resolution	3600 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]	947.6
Dimensions	[mm]	Ø 87 / L = 55
Material		aluminum
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	error inverted	
screen	housing	
Diagrams and graphs		
Pulse diagram	Output A Output B 0 index	