

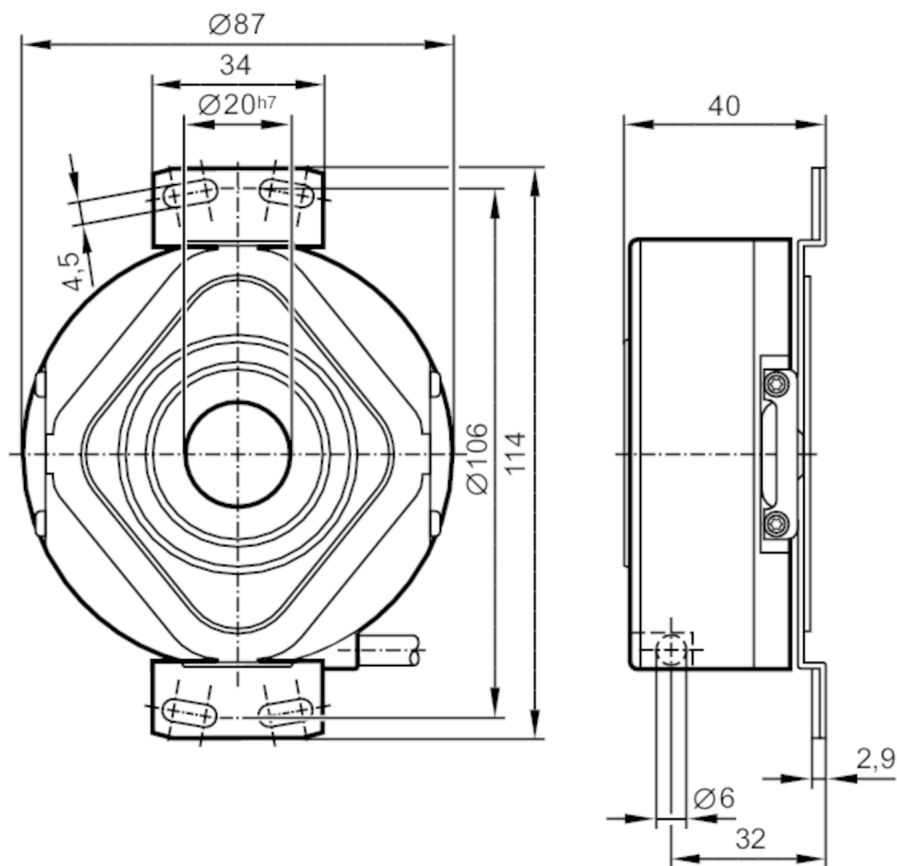
RP6010



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

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



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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
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]	886.8
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	



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Diagrams and graphs

Pulse diagram



Output A

Output B

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