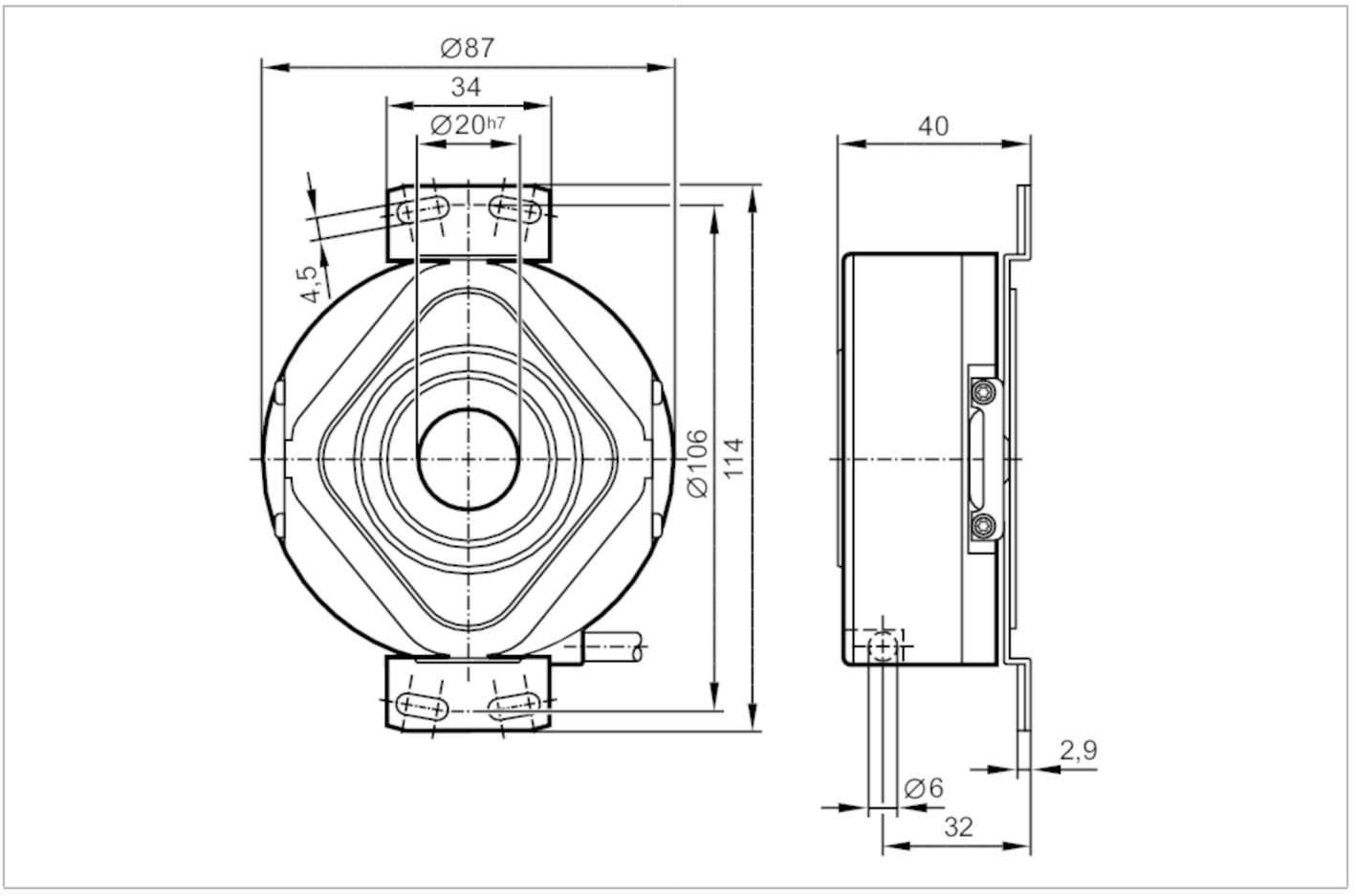
RP6010

Incremental encoder with hollow shaft

RP-1000-I24/N10

Article no longer available - archive entry



Product characteristics		
Resolution		1000 resolution
Shaft design		continuous hollow shaft
Shaft diameter	[mm]	20
Application		
Function principle		incremental
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 und B	[°]	90

RP6010

Incremental encoder with hollow shaft

RP-1000-I24/N10

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
Material		aluminum
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/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	error inverted
screen	housing

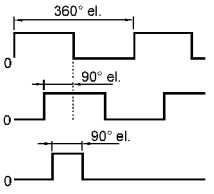
RP6010

Incremental encoder with hollow shaft

RP-1000-I24/N10

Diagrams and graphs

Pulse diagram



Output A

Output B

0 index