RN6059

Absolute singleturn encoder with solid shaft

RN-8192-S24/N59

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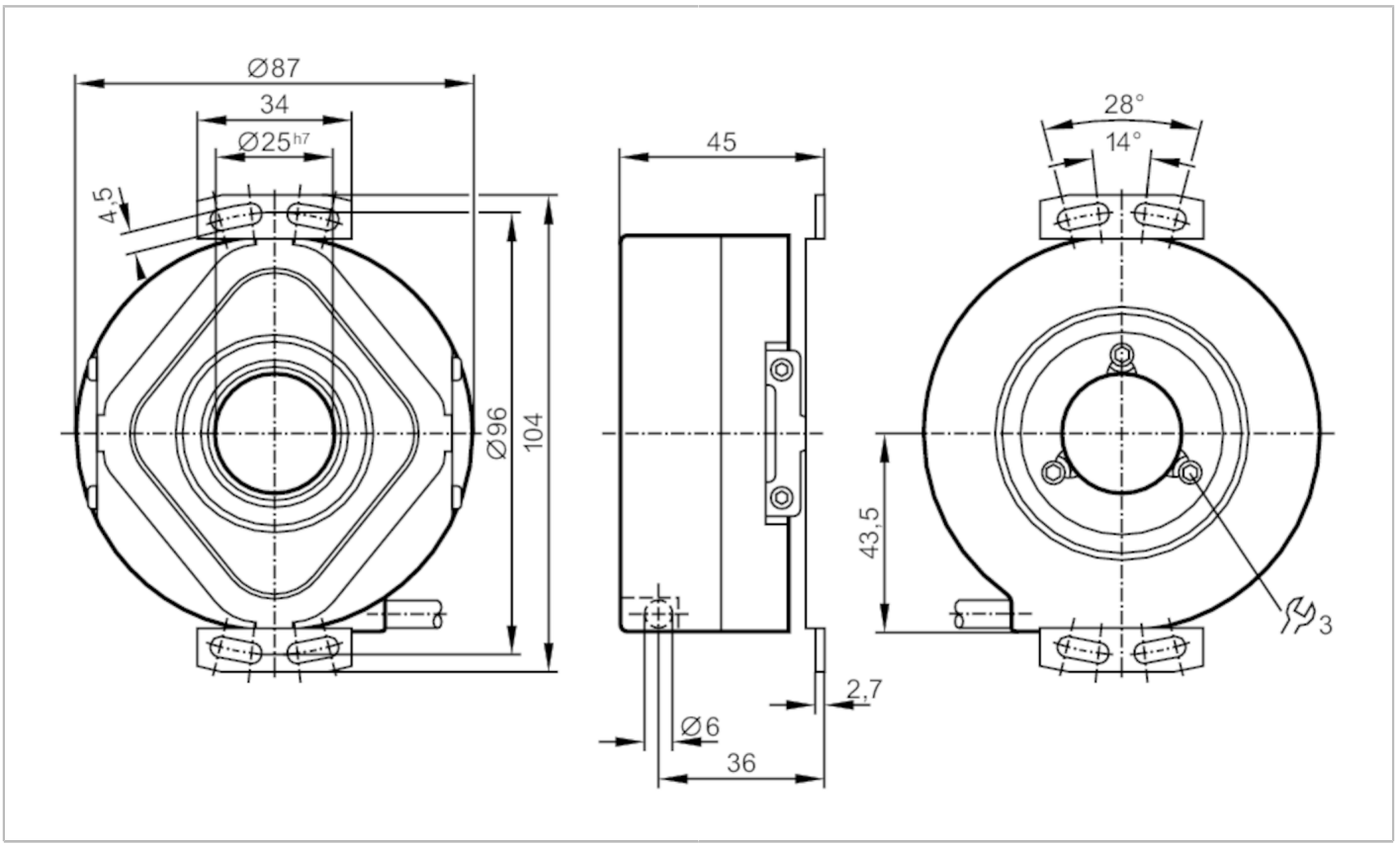

CE

Product characteristics		
Resolution		8192 resolution; 8192 steps; 13 bit
Communication interface		SSI data interface
Shaft design		continuous hollow shaft
Shaft diameter	[mm]	25
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	180
Max. revolution electrical	[U/min]	6000
Outputs		
Code		Gray code; (increasing code values when turned clockwise (seen on the shaft))
Code signal		Data input; TTL-compatible signals; clock and clock (inv.) from drivers to RS 485; data output; synchronous serial; TTL-compatible signal data and data (inv.); incremental signals; 2 sinusoidal incremental signals (A and B) ; phase shifted by 90°; 1 Vss 2048 signal periods per revolution
Measuring/setting range		
Resolution		8192 resolution; 8192 steps; 13 bit
Interfaces		
Communication interface		SSI data interface

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Operating conditions		
Ambient temperature	[°C]	-20...85
Storage temperature	[°C]	-30...100
Protection		IP 64

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

Mechanical data		
Dimensions	[mm]	Ø 87 / L = 45
Material		aluminum
Max. starting torque	[Nm]	15
Reference temperature torque	[°C]	20
Shaft design		continuous hollow shaft
Shaft diameter	[mm]	25
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	10
Max. shaft load radial (at the shaft end)	[N]	20
Installation depth/shaft	[mm]	46

Remarks	
Remarks	Wires/pins not connected (n.c.) must not be used.

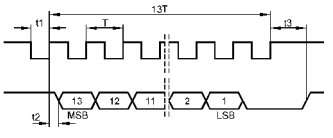
Electrical connection

Cable: 5 m, PUR; Maximum cable length: 100 m; radial

black	n.c.
red	n.c.
green	n.c.
brown	n.c.
brown/green	10...30V (Up)
lilac	clock
yellow	clock inverted
screen	housing
white/green	0V (Un)
blue / black	B+
red/black	B-
grey	data
green / black	A+
yellow / black	A-
pink	data inverted

Diagrams and graphs

Pulse diagram



clock

data