

RN-1024-S24/N1B



Resolution	1024 resolution; 1024 steps; 10 bit
Communication interface	SSI data interface
Shaft design	solid shaft
Shaft diameter [mm]	10

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 150
Max. revolution electrical	[U/min]	6000

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 signals, data, and data (inv.); incremental signals; 2 sinusoidal incremental signals (A and B) ; phase shifted by 90°; 1 Vss 512 signal periods per revolution

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Communication interface	SSI data interface
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Ambient temperature	[°C]	-20...85
Storage temperature	[°C]	-30...80
Protection		IP 64



Absolute singleturn encoder with solid shaft

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Tests / approvals

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

Mechanical data

Dimensions [mm]	Ø 58 / L = 52
Materials	aluminium
Max. revolution, mechanical [U/min]	12000
Max. starting torque [Nm]	1
Reference temperature torque [°C]	20
Shaft design	solid shaft
Shaft diameter [mm]	10
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

Remarks

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

Cable: 1 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
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