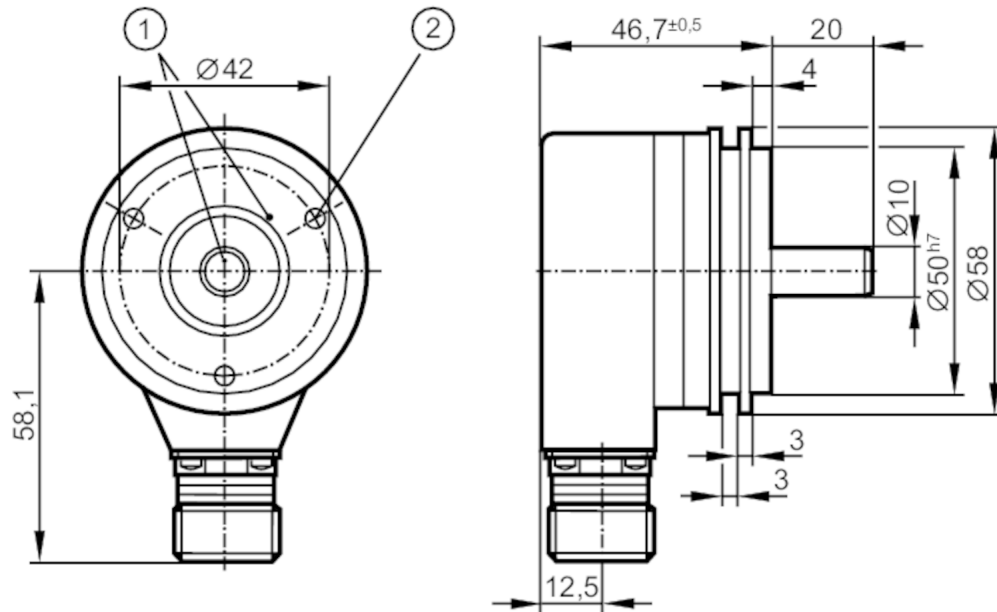




Absolute singleturn encoder with solid shaft

RN-4096-S24/K B

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Product characteristics

Resolution	4096 resolution; 4096 steps; 12 bit
Communication interface	SSI data interface
Shaft design	solid shaft
Shaft diameter [mm]	10

Application

Function principle	absolute
Revolution type	singleturn

Electrical data

Operating voltage	[V]	4.75...30 DC
Current consumption	[mA]	< 160

Outputs

Code	Gray code; (increasing code values when turned clockwise (seen on the shaft))
Code signal	Clock 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

Measuring/setting range

Resolution	4096 resolution; 4096 steps; 12 bit
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Interfaces

Communication interface	SSI data interface
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Operating conditions

Ambient temperature	[°C]	-40...85
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Max. relative air humidity [%]	75; (briefly: 95 %)
Protection	IP 64

Tests / approvals

Shock resistance	100 g (6 ms)
Vibration resistance	30 g (55...2000 Hz)

Mechanical data

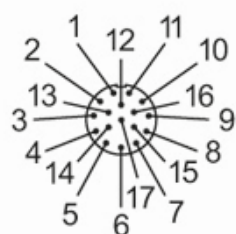
Weight [g]	441.8
Dimensions [mm]	Ø 58 / L = 66.7
Materials	aluminium
Max. revolution, mechanical [U/min]	12000
Max. starting torque [Nm]	1
Reference temperature torque [°C]	20
Shaft design	solid shaft
Shaft diameter [mm]	10
Shaft material	steel (1.4104)
Max. shaft load axial (at the shaft end) [N]	10
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

Connector: 1 x M23 (ifm 1001.11), radial; Maximum cable length: 100 m



1	n.c.
2	n.c.
3	n.c.
4	n.c.
5	n.c.
6	n.c.
7	L+ Up
8	clock
9	clock inverted
10	0v Un
11	housing
12	B (+)
13	B (-)
14	data
15	A (+)
16	A (-)
17	data inverted

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Diagrams and graphs

Pulse diagram

