

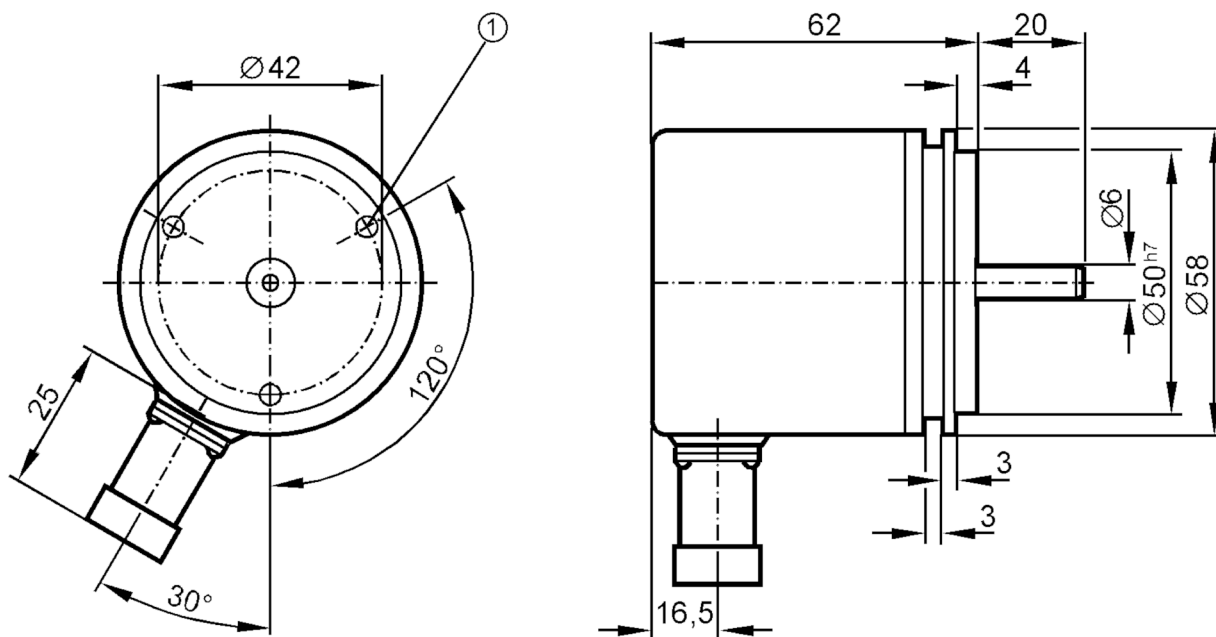
RN6027



Absolute singleturn encoder with solid shaft

RN-4096-G24/K A

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Product characteristics

Resolution	4096 resolution
Communication interface	parallel
Shaft design	solid shaft
Shaft diameter [mm]	10

Electrical data

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

Outputs

Electrical design	HTL
Max. current load per output [mA]	20
Type of short-circuit protection	< 60 s
Code	Gray code; (increasing code values when turned clockwise (seen on the shaft))

Measuring/setting range

Resolution	4096 resolution
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Interfaces

Communication interface	parallel
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Operating conditions

Ambient temperature [°C]	-20...85
Storage temperature [°C]	-30...100

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Max. relative air humidity	[%]	98
Protection		IP 65

Tests / approvals

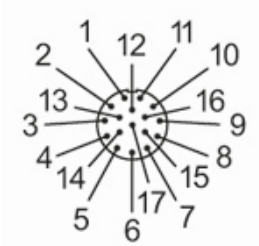
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)

Mechanical data

Dimensions	[mm]	Ø 58 / L = 82
Materials		aluminium
Max. revolution, mechanical [U/min]		10000
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

Electrical connection

Connector: 1 x M23 (ifm 1001.8), radial; Maximum cable length: 100 m



1	0V Un
2	Ub
3	release A inverted
4	release B inverted
5	bit 3
6	bit 4
7	bit 5
8	bit 6
9	bit 7
10	bit 8
11	bit 9
12	bit 10
13	bit 11
14	bit 12
15	0V sensor
16	Ub sensor
17	bit 10 inverted
18	bit 2
19	bit 1



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Diagrams and graphs

Pulse diagram



release A inverted

release B inverted

tracks 3...10

tracks 1...2