

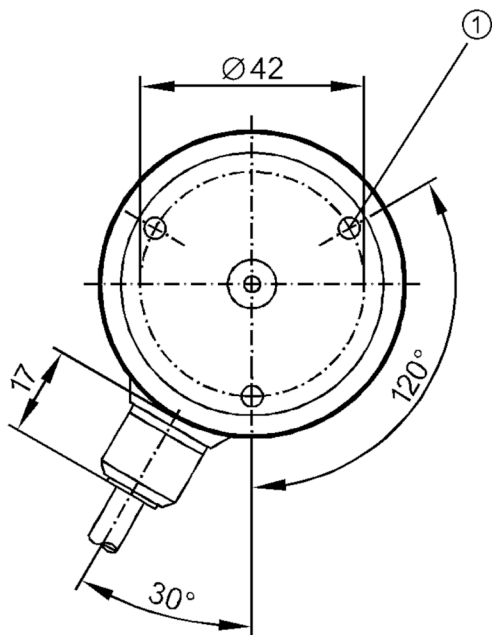
RN6043



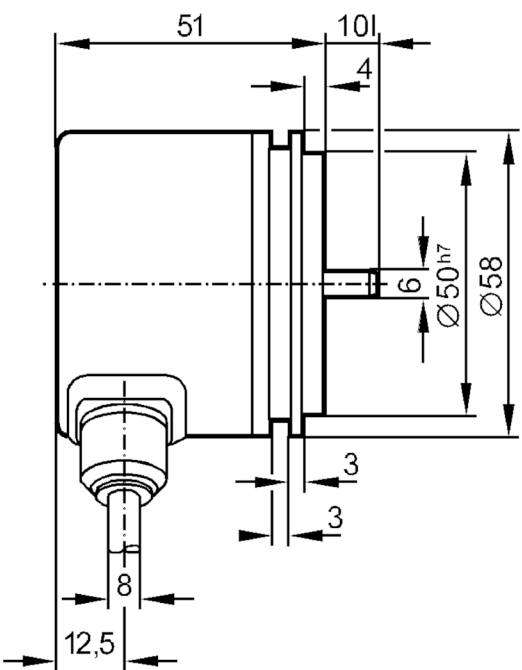
Absolute singleturn encoder with solid shaft

RN-1024-G24/N1A

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1 M4 Depth 5 mm



Product characteristics

Resolution	1024 resolution; 1024 steps; 10 bit
Communication interface	parallel
Shaft design	solid shaft
Shaft diameter [mm]	6

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	1024 resolution; 1024 steps; 10 bit
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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 = 61
Material		aluminum
Max. revolution, mechanical [U/min]		10000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	6
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

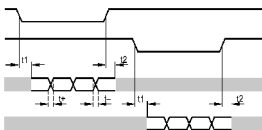
Electrical connection

Cable: 1 m, PUR; Maximum cable length: 100 m; radial

brown	10...30V
yellow/brown	10...30V sensor
white	0V
white/yellow	0V sensor
green	release A inverted 5...30V
yellow	release B inverted 5...30V
white/grey	bit 10 (MSB) inverted
brown/green	bit 10 (MSB)
white/green	bit 9
red/blue	bit 8
grey/pink	bit 7
lilac	bit 6
black	bit 5
red	bit 4
blue	bit 3
pink	bit 2
grey	bit 1
screen	housing

Diagrams and graphs

Pulse diagram



release A inverted
release B inverted
tracks 3...10
tracks 1...2