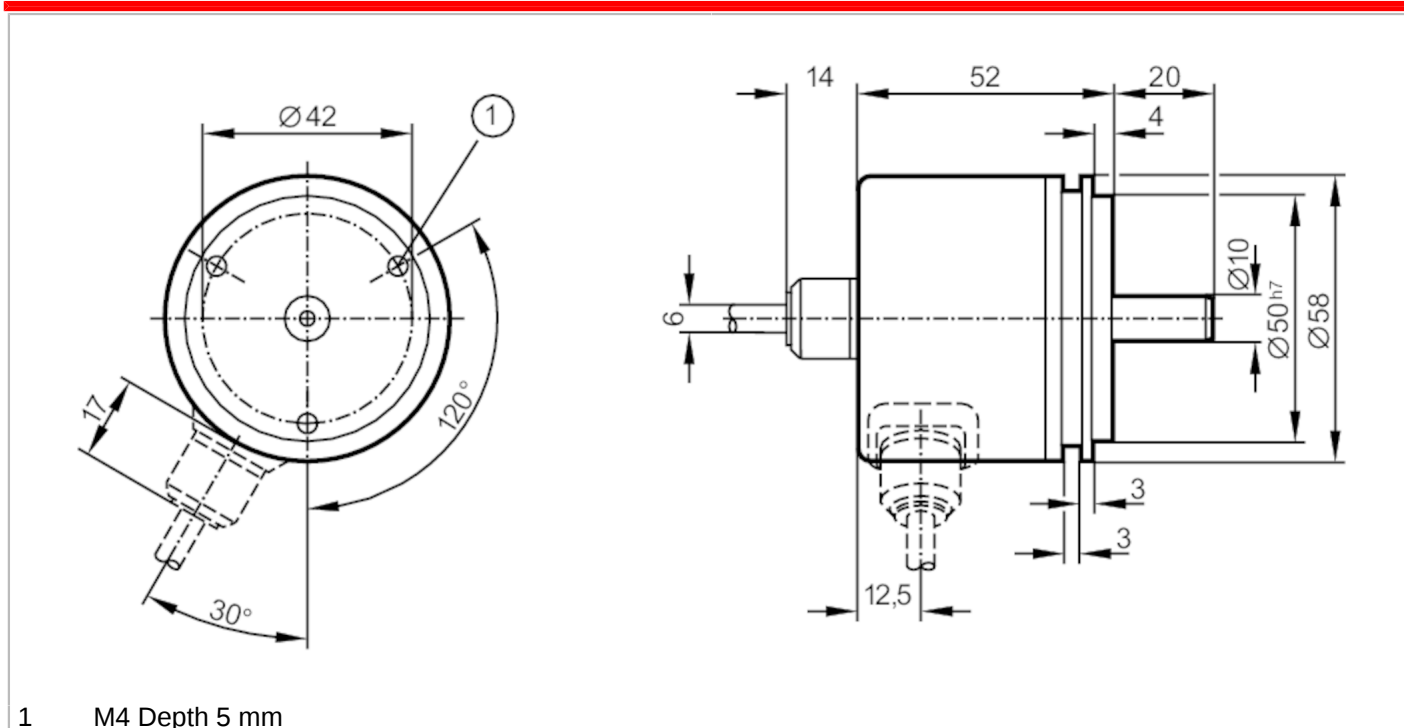




Absolute singleturn encoder with solid shaft

RN-0360-G24/N1B

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Product characteristics

Resolution 360 steps; 9 bit

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

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

Measuring/setting range

Resolution 360 steps; 9 bit

Operating conditions

Ambient temperature [°C] -20...85

Storage temperature [°C] -30...100

Max. relative air humidity [%] 98

Protection IP 64

Tests / approvals

Shock resistance 100 g (6 ms)

Vibration resistance 10 g (55...2000 Hz)

MTTF [years] 46

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Mechanical data	
Dimensions [mm]	Ø 58 / L = 52
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

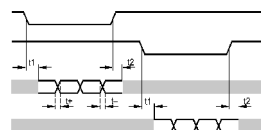
Electrical connection

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 9 (MSB) inverted
brown/green	bit 9 (MSB)
white/green	bit 8
red/blue	bit 7
grey/pink	bit 6
lilac	bit 5
black	bit 4
red	bit 3
blue	bit 2
pink	bit 1
Screen	housing

Diagrams and graphs

Pulse diagram



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

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