RN6022

Absolute singleturn encoder with solid shaft

RN-2048-G24/N1B

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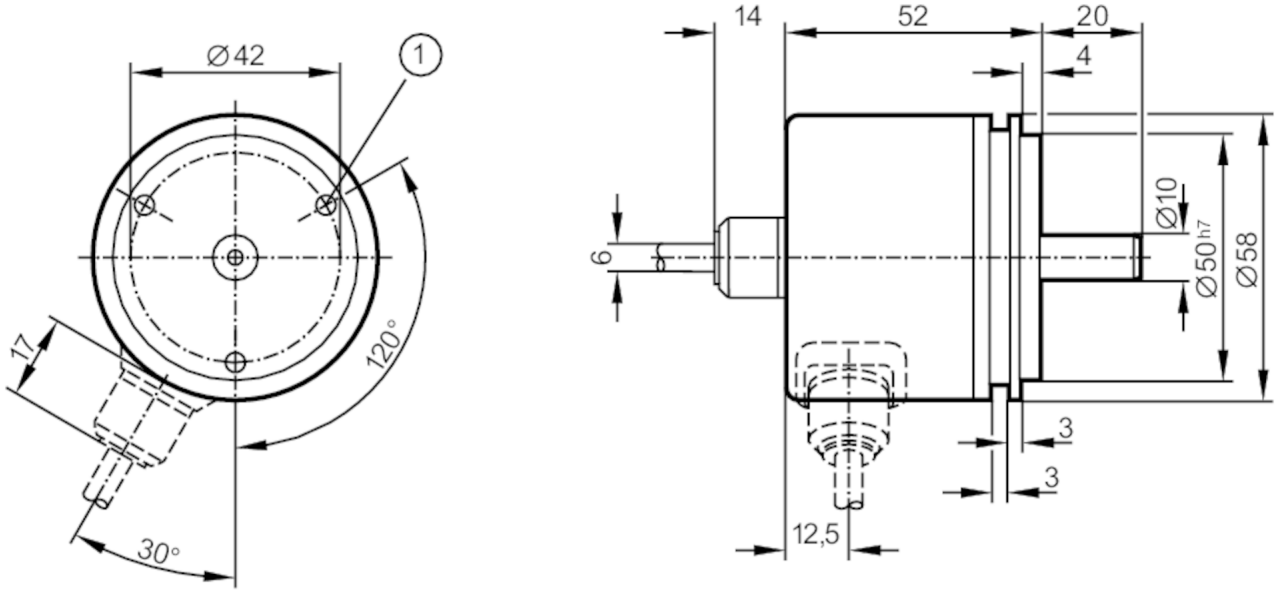

1 M4 Depth 5 mm

Product characteristics		
Resolution		2048 resolution; 2048 steps; 11 bit
Communication interface		parallel
Shaft design		solid shaft
Shaft diameter	[mm]	10
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 250
Max. revolution electrical	[U/min]	1500
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		2048 resolution; 2048 steps; 11 bit
Interfaces		
Communication interface		parallel

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Operating conditions		
Ambient temperature	[°C]	-20...70
Storage temperature	[°C]	-30...100
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 = 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
brown/green	bit 11 (MSB)
white/green	bit 10
red/blue	bit 9
grey/pink	bit 8
lilac	bit 7
black	bit 6
red	bit 5
blue	bit 4
pink	bit 3
grey	bit 2
yellow/brown	bit 1
Screen	housing

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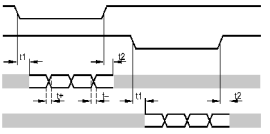
Diagrams and graphs

Pulse diagram



release A inverted

release B inverted

tracks 7...12

tracks 1...6