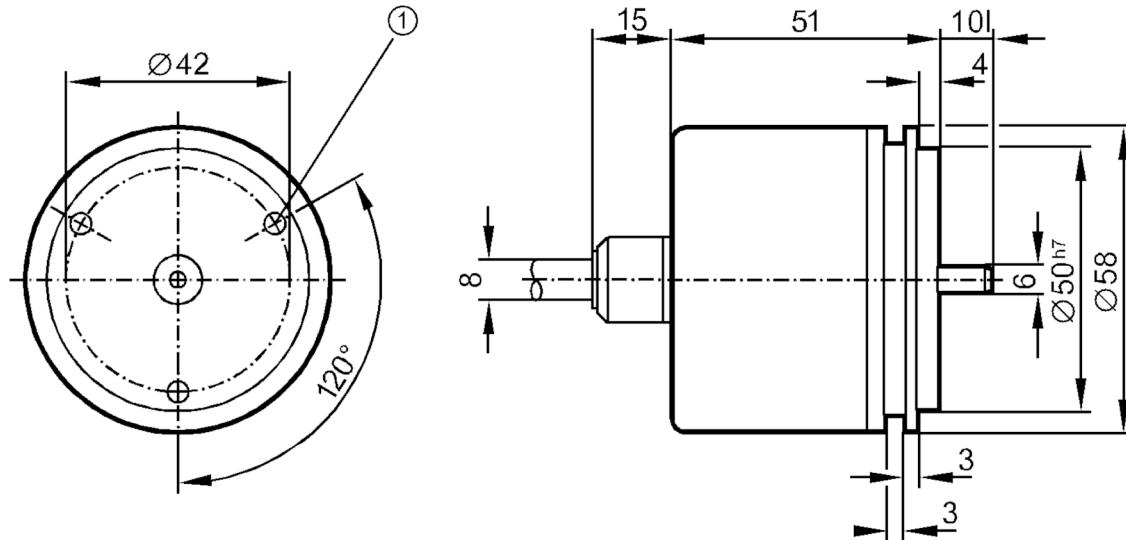


Absolute singleturn encoder with solid shaft

RN-4096-G24/L1A

Article no longer available - archive entry



1 M4 Depth 5 mm

CE

Product characteristics

Resolution	4096 resolution
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	4096 resolution
------------	-----------------

Interfaces

Communication interface	parallel
-------------------------	----------

Operating conditions

Ambient temperature [°C]	-20...70
Storage temperature [°C]	-30...100

RN6023



Absolute singleturn encoder with solid shaft

RN-4096-G24/L1A

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 = 76
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]	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; axial		
brown		10...30V
yellow/brown		10...30V sensor
white		0V
white/yellow		0V sensor
green		release A inverted
yellow		release B inverted
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		<p>The diagram illustrates the pulse signals for four tracks (1 through 4). Each track consists of two signals: a standard signal and an inverted signal. The inverted signals are labeled 'release A inverted' and 'release B inverted'. The standard signals are labeled 'tracks 3...10' and 'tracks 1...2' respectively. The signals are shown as square waves with different phase shifts between them.</p>