

RN6042



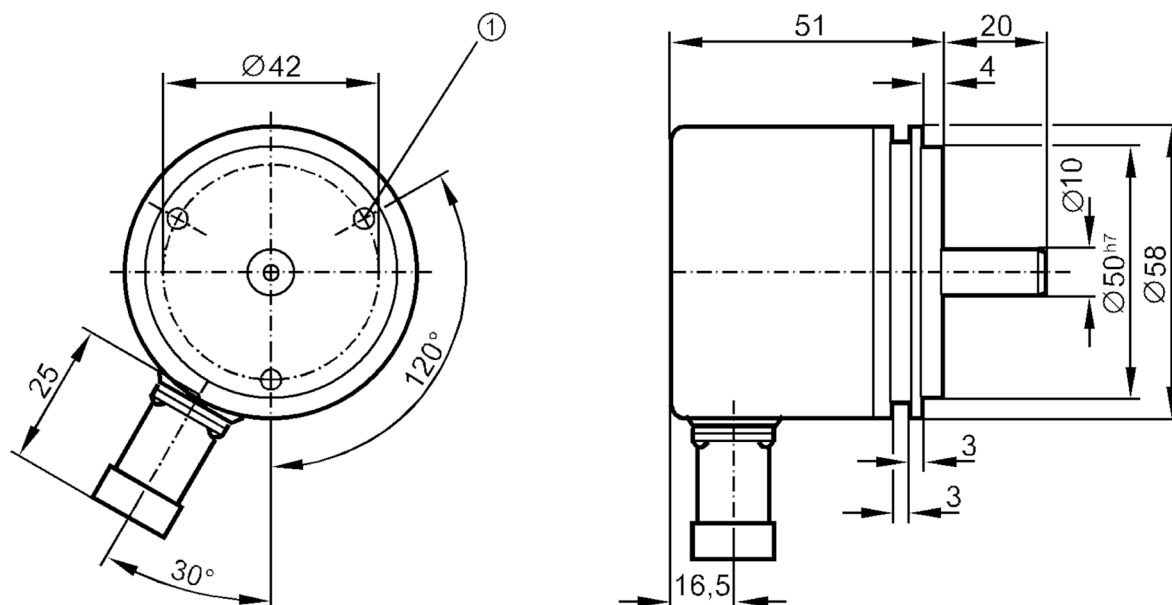
Absolute singleturn encoder with solid shaft

RN-0512-G24/K B

Article no longer available - archive entry

Alternative articles: RN6032

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Resolution	512 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	512 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
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 = 71
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]	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

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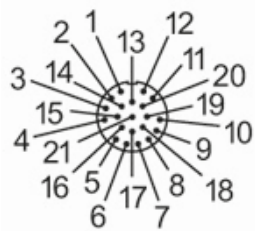


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Electrical connection

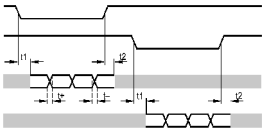
Connector: 1 x M23 (ifm 1001.8), radial; Maximum cable length: 100 m



1	0V (Un) white
2	10...30V brown
3	release A (inv.) green
4	release B (inv.) yellow
5	-
6	bit 1 (LSB) pink
7	bit 2 blue
8	bit 3 red
9	bit 4 black
10	bit 5 lilac
11	bit 6 grey/pink
12	bit 7 red/blue
13	bit 8 white/green
14	bit 9 (MSB) brown/green
15	0 V (sensor) white/yellow
16	yellow/brown 10...30V sensor
17	bit 9 (MSB) (inv.) white/grey
18	-
19	-
20	-
21	-
screen	housing

Diagrams and graphs

Pulse diagram



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