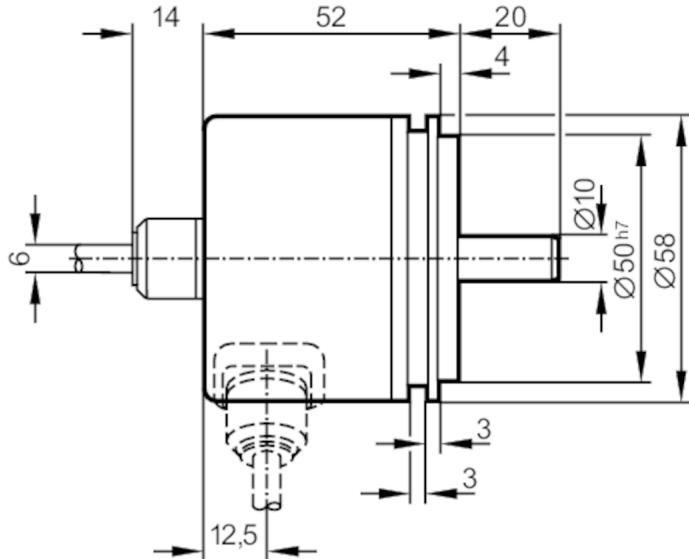
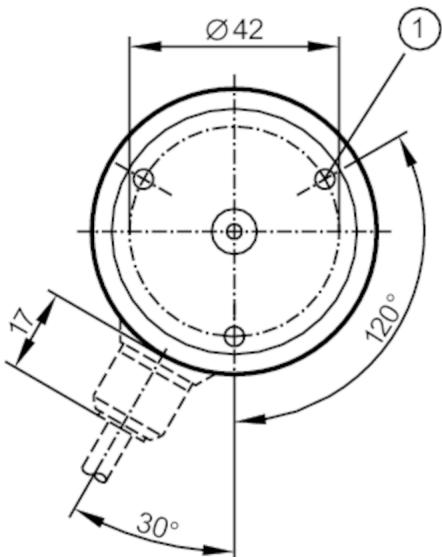


## Absolute singleturn encoder with solid shaft

RN-0512-G24/N1B

Article no longer available - archive entry



1 M4 Depth 5 mm



### Product characteristics

Resolution	512 resolution; 512 steps; 9 bit
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; 512 steps; 9 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

# RN6003



## Absolute singleturn encoder with solid shaft

RN-0512-G24/N1B

Max. relative air humidity	[%]	98
Protection		IP 64
<b>Tests / approvals</b>		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)
<b>Mechanical data</b>		
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
<b>Electrical connection</b>		
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
<b>Diagrams and graphs</b>		
Pulse diagram		<p>release A inverted release B inverted tracks 3...10 tracks 1...2</p>