

RN6050



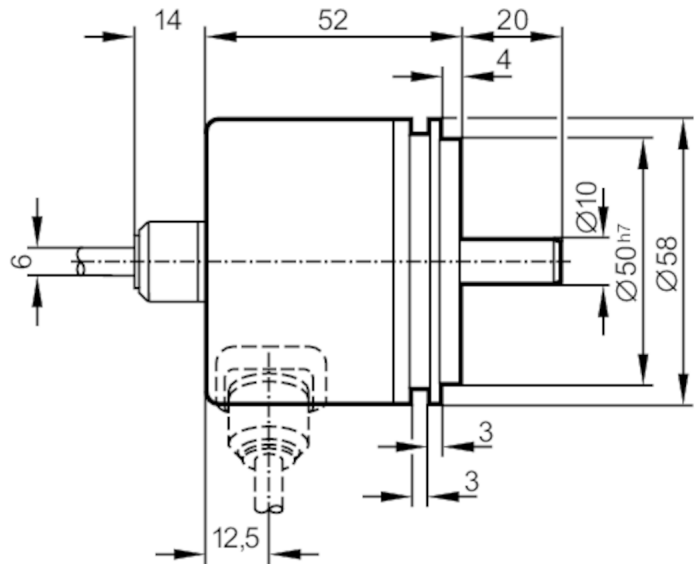
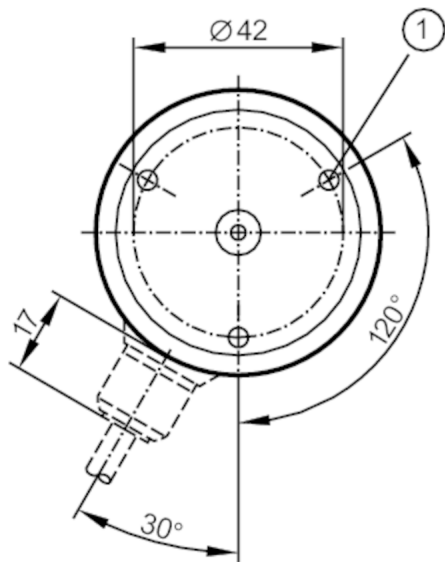
Absolute singleturn encoder with solid shaft

RN-1024-S24/L1B

Article no longer available - archive entry

Alternative articles: RN6052

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



1	M4 Depth 5 mm
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Product characteristics

Resolution	1024 resolution; 1024 steps; 10 bit
Communication interface	SSI data interface
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

Code	Gray code; (increasing code values when turned clockwise (seen on the shaft))
Code signal	Data input; TTL-compatible signals; clock and clock (inv.) from drivers to RS 485; data output; synchronous serial; TTL-compatible signal data and data (inv.); incremental signals; 2 sinusoidal incremental signals (A and B) ; phase shifted by 90°; 1 Vss 512 signal periods per revolution

Measuring/setting range

Resolution	1024 resolution; 1024 steps; 10 bit
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Interfaces

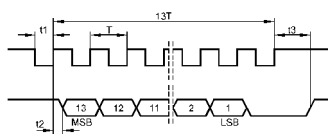
Communication interface	SSI data interface
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Operating conditions		
Ambient temperature	[°C]	-20...85
Storage temperature	[°C]	-30...80
Protection		IP 64
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)
Mechanical data		
Dimensions	[mm]	Ø 58 / L = 52
Material		aluminum
Max. revolution, mechanical [U/min]		12000
Max. starting torque [Nm]		1
Reference temperature [°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
Remarks		
Remarks	Wires/pins not connected (n.c.) must not be used.	
Electrical connection		
Cable: 1 m, PUR; Maximum cable length: 100 m; axial		
black	n.c.	
red	n.c.	
green	n.c.	
brown	n.c.	
brown/green	10...30V (Up)	
lilac	clock	
yellow	clock inverted	
screen	housing	
white/green	0V (Un)	
blue / black	B+	
red/black	B-	
grey	data	
green / black	A+	
yellow / black	A-	
pink	data inverted	
Diagrams and graphs		
Pulse diagram	 clock data	