

RN6054

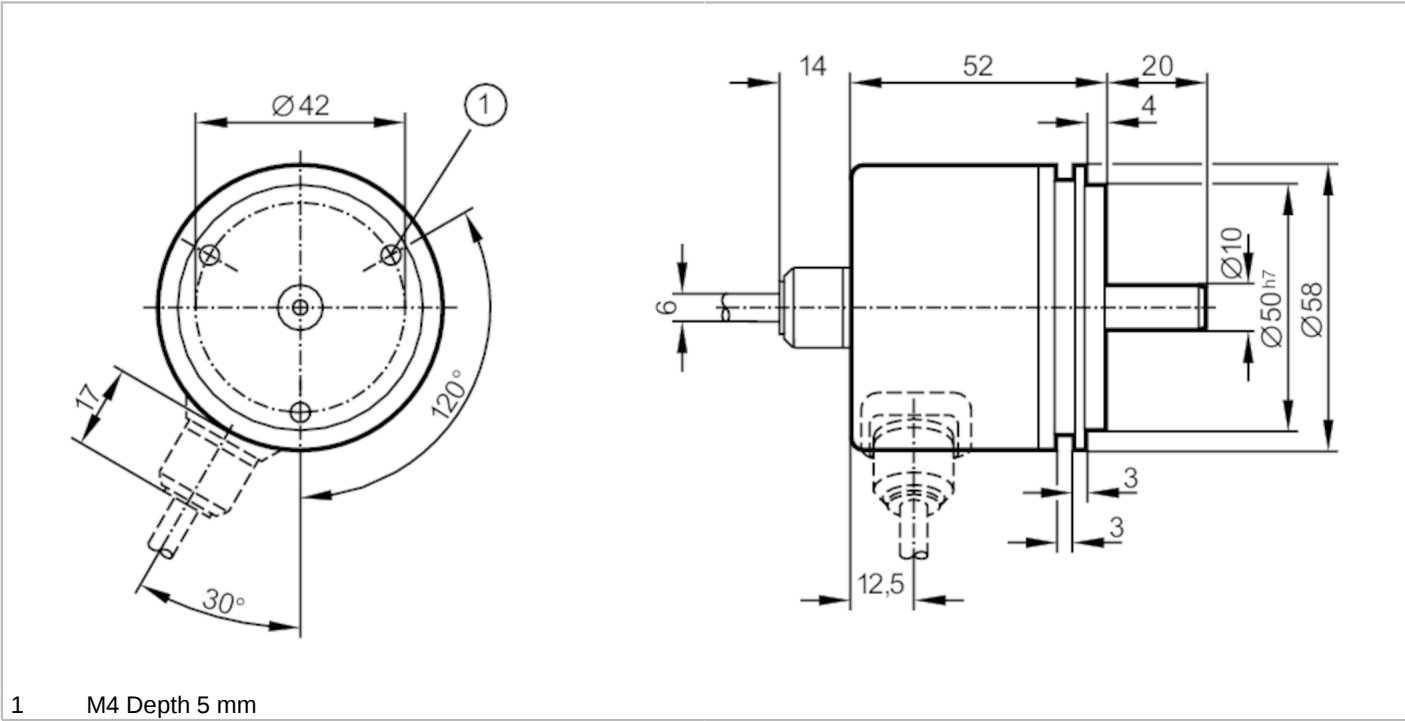


Absolute singleturn encoder with solid shaft

RN-4096-S24/N1B

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Alternative articles: RN6055
When selecting an alternative article and accessories please note that technical data may differ!



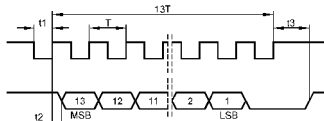
Product characteristics	
Resolution	4096 resolution; 4096 steps; 12 bit
Communication interface	SSI data interface
Shaft design	solid shaft
Shaft diameter [mm]	10
Electrical data	
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 150
Max. revolution electrical [U/min]	6000
Outputs	
Code	Gray 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	4096 resolution; 4096 steps; 12 bit
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 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
Remarks		
Remarks	Wires/pins not connected (n.c.) must not be used.	
Electrical connection		
Cable: 1 m, PUR; Maximum cable length: 100 m; radial		
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	