

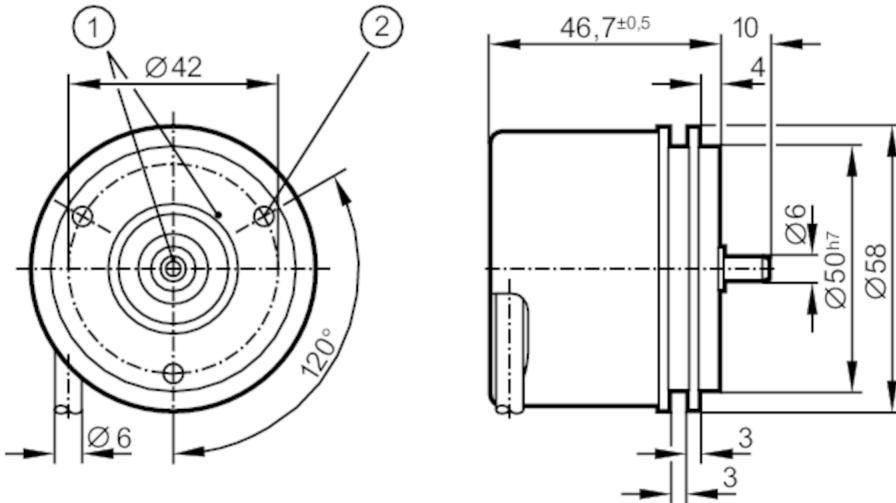
# RM6001



## Absolute multturn encoder with solid shaft

RM-4096-S24/N1A

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- 1 reference mark  
2 M4 Depth 5 mm



### Product characteristics

Resolution	4096 resolution; 4096 steps; 4096 revolutions; 24 bit
Communication interface	SSI data interface
Shaft design	solid shaft
Shaft diameter [mm]	6

### Application

Function principle	absolute
Revolution type	multiturn

### Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 200

### Inputs

Inputs	reversal of direction of rotation; reset to zero
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### Outputs

Code	Gray code; (increasing code values when turned clockwise (seen on the shaft))
Code signal	Clock input; TTL-compatible signals; clock and clock (inv.) from drivers to RS 485; data output; synchronous serial; TTL-compatible signals, 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; 4096 revolutions; 24 bit
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### Interfaces

Communication interface	SSI data interface
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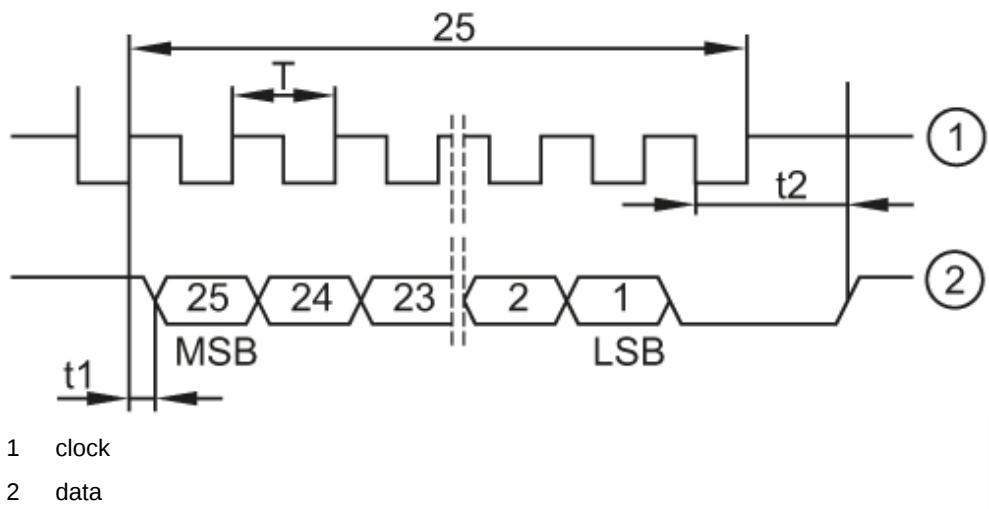
Operating conditions		
Ambient temperature	[°C]	-40...85
Max. relative air humidity	[%]	75; (briefly: 95 %)
Protection		IP 64
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		30 g (55...2000 Hz)
Mechanical data		
Weight	[g]	480
Dimensions	[mm]	Ø 58 / L = 46.7
Materials		aluminium
Max. revolution, mechanical	[U/min]	12000
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
Remarks		
Remarks		Wires/pins not connected (n.c.) must not be used.
Electrical connection		
Cable: 1 m, PUR; Maximum cable length: 100 m; radial, can also be used axially		
blue		sensor (Up)
black		reversal of direction of rotation
red		n.c.
white		sensor 0 V
green		reset to zero
brown		n.c.
brown/green		10...30 V (Up)
lilac		clock
yellow		clock inverted
white/green		0 V (Un)
screen		housing
blue / black		B+
red/black		B-
grey		data
green / black		A+
yellow / black		A-
pink		data inverted

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### Diagrams and graphs

Pulse diagram



1 clock

2 data