

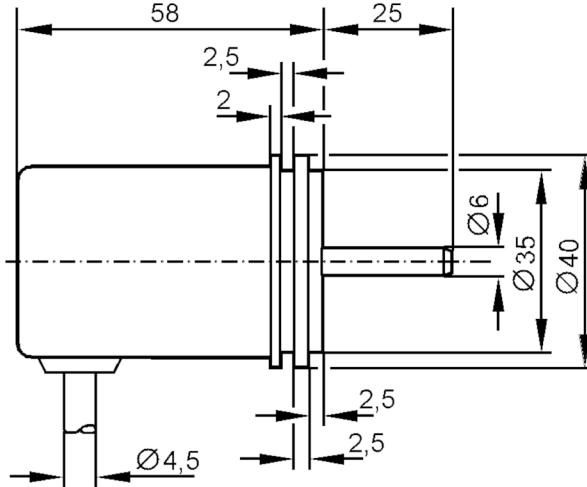
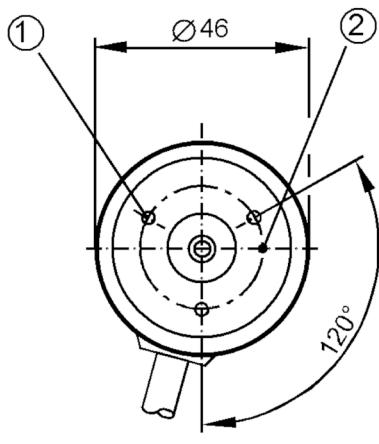
# RS5006



## Solid shaft encoder

RS-0500-I24/NB

Article no longer available - archive entry



- 1 reference mark  
2 M3 Depth 10 mm



### Product characteristics

Resolution	500 resolution
Shaft design	solid shaft
Shaft diameter [mm]	6

### Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	150

### Outputs

Electrical design	HTL
Max. current load per output [mA]	50
Switching frequency [kHz]	50

Type of short-circuit protection	< 60 s
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Phase difference A and B [°]	90
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### Measuring/setting range

Resolution	500 resolution
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### Operating conditions

Ambient temperature [°C]	-20...70
Storage temperature [°C]	-30...80
Max. relative air humidity [%]	98
Protection	IP 64

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## Solid shaft encoder

RS-0500-I24/NB

Tests / approvals	
Shock resistance	30 g (6 ms)
Vibration resistance	10 g (55...2000 Hz)
Mechanical data	
Dimensions [mm]	Ø 40 / L = 83
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]	6
Shaft material	stainless steel
Max. shaft load axial (at the shaft end) [N]	20
Max. shaft load radial (at the shaft end) [N]	20
Electrical connection	
Cable: 0.4 m; radial	
white	A
green	B
yellow	0 index
brown	10...30V (Up)
grey	0V (Un)
screen	housing
Diagrams and graphs	
Pulse diagram	<p>The diagram illustrates the pulse signals for the RS5006 solid shaft encoder. It shows three waveforms: Output A, Output B, and the 0 index signal. The 0 index signal is a square wave that completes one full cycle (360°) during the time it takes for Output A to complete one full cycle. This indicates a resolution of 10000 counts per revolution.</p>
	<p>Output A</p> <p>Output B</p> <p>0 index</p>