

# RB6046



## Incremental encoder with solid shaft

RB-0050-I24/L2E

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- 1 reference mark
- 2 M3 Depth 5 mm



### Product characteristics

Resolution	50 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]	160
Type of short-circuit protection	< 60 s
Phase difference A and B [°]	90

### Measuring/setting range

Resolution	50 resolution
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### Operating conditions

Ambient temperature [°C]	-30...70
Note on ambient temperature	for firmly laid cable: -30 °C
Storage temperature [°C]	-30...100
Max. relative air humidity [%]	98
Protection	IP 66

### Tests / approvals

Shock resistance	100 g (6 ms)
Vibration resistance	10 g (55...2000 Hz)

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Mechanical data		
Dimensions	[mm]	Ø 36.5 / L = 38
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		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	5
Max. shaft load radial (at the shaft end)	[N]	10

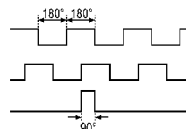
### Electrical connection

Cable: 2 m, PUR

white/green	0V
brown/green	L+
brown	A
green	0V A
grey	B
pink	0V B
red	0 index
black	0V 0 index
lilac	failure inverted
screen	housing

### Diagrams and graphs

Pulse diagram



Output A  
Output B  
0 index

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