

RB6001

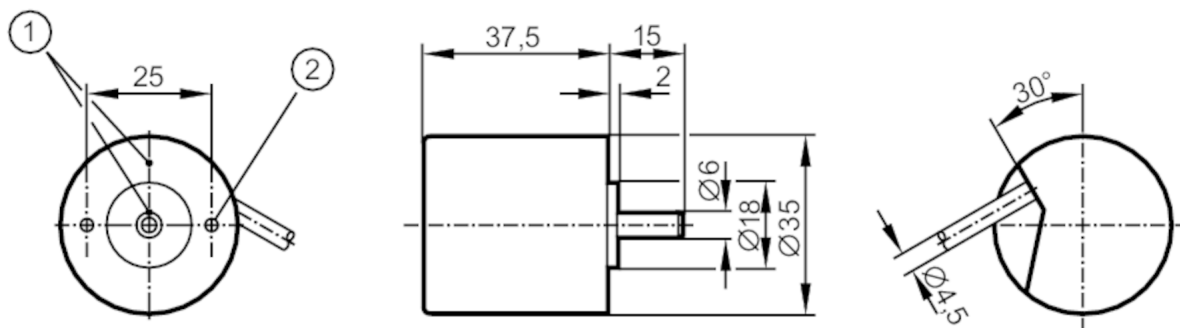
Incremental encoder with solid shaft

RB-0010-I24/L2



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- 1 reference mark
- 2 M3 Depth 5 mm



Application

Function principle incremental

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 und B [°] 90

Measuring/setting range

Resolution 10 resolution

Operating conditions

Ambient temperature [°C] -40...70
Note on ambient temperature for firmly laid cable
Max. relative air humidity [%] 75; (briefly: 95 %)
Protection IP 64

Tests / approvals

Shock resistance 100 g (6 ms)
Vibration resistance 10 g (55...2000 Hz)
MTTF [years] 190



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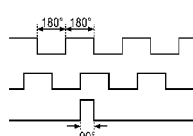
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Mechanical data		
Weight	[g]	267.4
Dimensions	[mm]	Ø 35 / L = 52.5
Materials		aluminium
Max. revolution, mechanical	[U/min]	10000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	6
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	5
Max. shaft load radial (at the shaft end)	[N]	10

Remarks	
Notes	discontinued article

Electrical connection	
Cable: 2 m, PUR; radial, can also be used axially	

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

Diagrams and graphs	
Pulse diagram	 Output A Output B 0 index

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