

# RU1146



## Incremental encoder with solid shaft

RU10000-I05/L5

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- 1 reference mark
- 2 M4 Depth 5 mm



### Product characteristics

Resolution	10000 resolution
Shaft design	solid shaft
Shaft diameter [mm]	6

### Electrical data

Operating voltage tolerance [%]	10
Operating voltage [V]	5 DC
Current consumption [mA]	150

### Outputs

Electrical design	TTL
Max. current load per output [mA]	20
Switching frequency [kHz]	300
Phase difference A and B [°]	90

### Measuring/setting range

Resolution	10000 resolution
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### Operating conditions

Ambient temperature [°C]	-20...100
Storage temperature [°C]	-30...100
Max. relative air humidity [%]	98
Protection	IP 64



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Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)
Mechanical data		
Dimensions [mm]		Ø 58 / L = 46
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
Fixing flange		synchro-flange

### Electrical connection

Cable: 5 m, PUR; axial

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

### Diagrams and graphs

Pulse diagram	<p>Output A</p> <p>Output B</p> <p>0 index</p>
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