RU1052

Incremental encoder with solid shaft

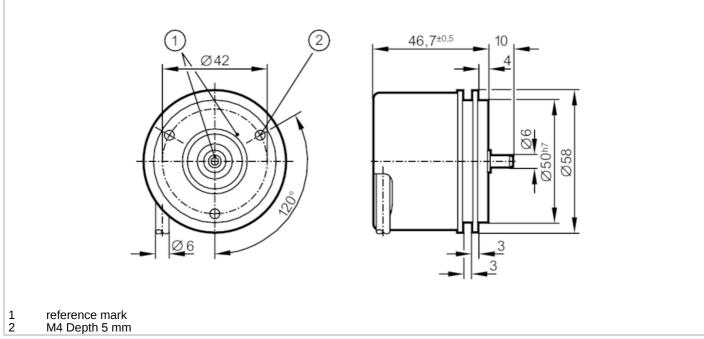RU10000-I05/L2

1   reference mark
2   M4 Depth 5 mm

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

Application	
Function principle	incremental

Electrical data	
Operating voltage tolerance [%]	10
Operating voltage [V]	5 DC
Current consumption [mA]	< 120

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

Measuring/setting range	
Resolution	10000 resolution

Operating conditions	
Ambient temperature [°C]	-40...100
Note on ambient temperature	firmly laid cable: -40 °C

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Max. relative air humidity	[%]	98
Protection		IP 64; (on the housing: IP 67; on the shaft: IP 64)

Tests / approvals		
Shock resistance		200 g
Vibration resistance		30 g

Mechanical data		
Weight	[g]	488
Dimensions	[mm]	Ø 58 / L = 46.7
Material		aluminum
Max. revolution, mechanical [U/min]		16000
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: 2 m, PUR; Maximum cable length: 100 m; radial, can also be used axially

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	error inverted
screen	housing

Diagrams and graphs

Pulse diagram

Direction of rotation clockwise (looking at the shaft)