RU1107

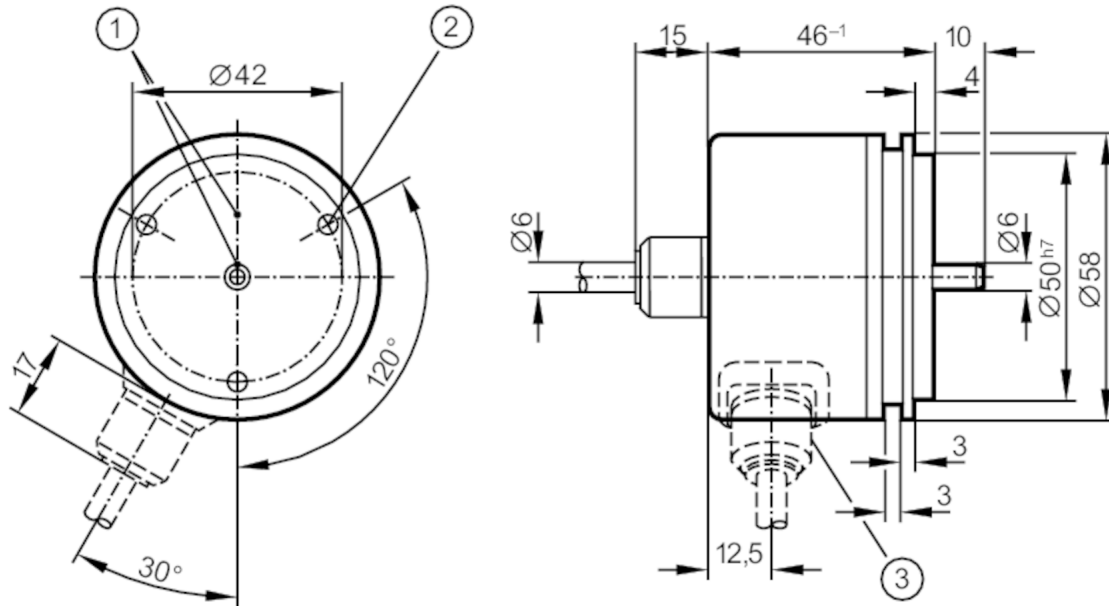### Incremental encoder with solid shaft

RU10000-I05/N2

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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
Operating conditions	
Ambient temperature [°C]	-30...100
Note on ambient temperature	for firmly laid cable: -30 °C
Storage temperature [°C]	-30...100
Protection	IP 64

RU1107

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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: 2 m, PUR; radial

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	
	direction of rotation clockwise (looking at the shaft)