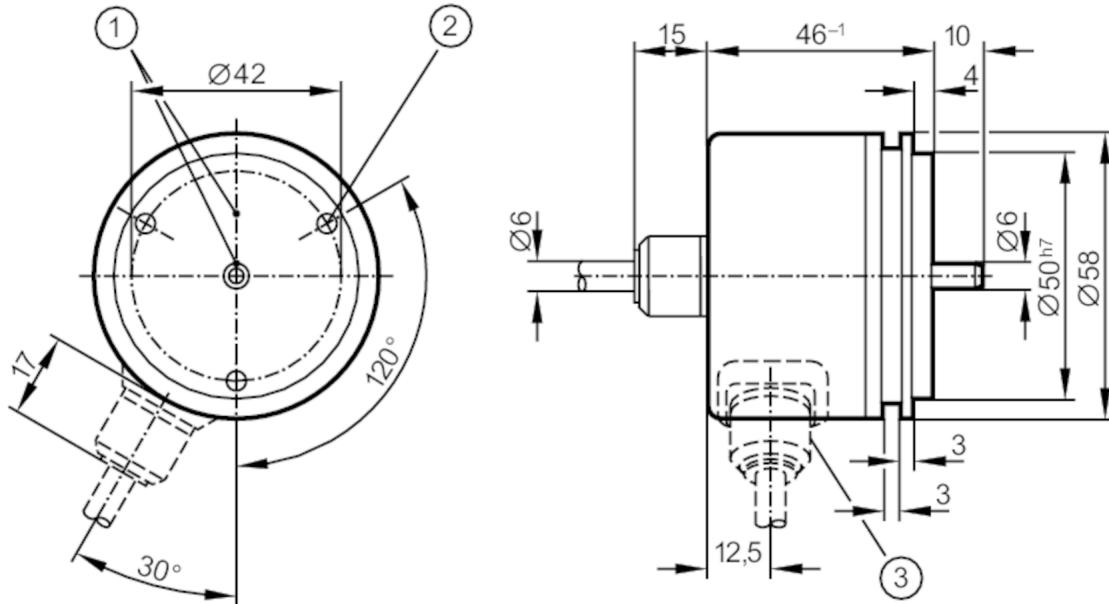


Incremental encoder with solid shaft

RU-2500-I05/S2E

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- 1 reference mark
2 M4 Depth 5 mm



Product characteristics

Resolution	2500 resolution
Shaft design	solid shaft
Shaft diameter [mm]	6

Application

Function principle	incremental
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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	2500 resolution
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Operating conditions

Ambient temperature [°C]	-30...100
Note on ambient temperature	for firmly laid cable: -30 °C
Storage temperature [°C]	-30...100

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Protection

IP 66

Tests / approvals

Shock resistance

100 g (6 ms)

Vibration resistance

10 g (55...2000 Hz)

Mechanical data

Weight

[g]

551

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

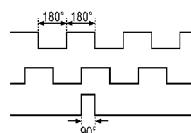
Electrical connection

Cable: 2 m, PUR; radial

Connector: 1 x (ifm 1000.2)

Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)