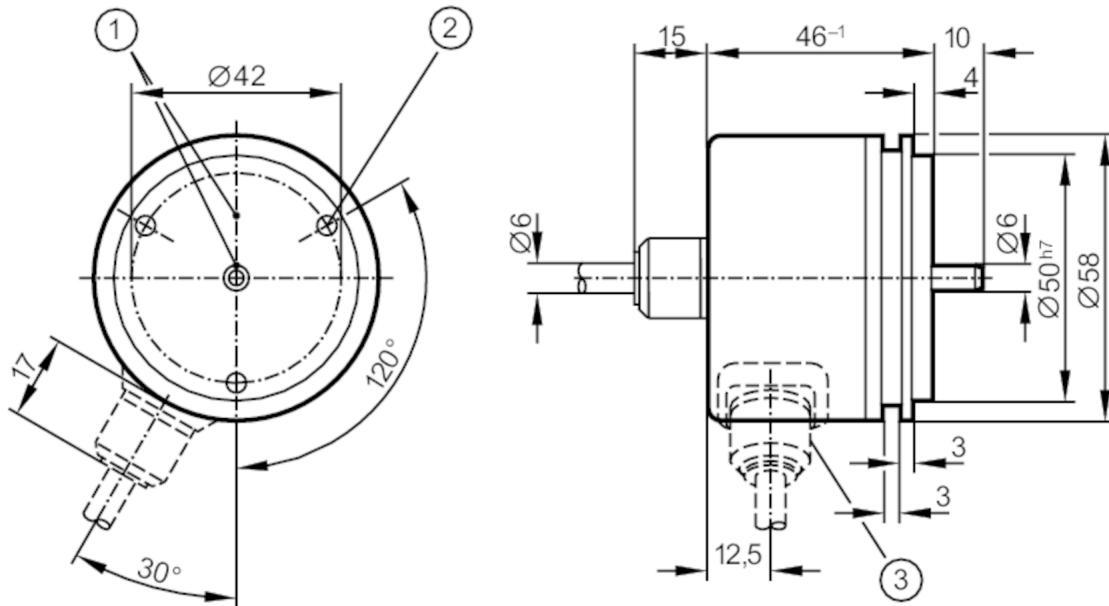


**Incremental encoder with solid shaft**

RU-0250-I05/P1

Article no longer available - archive entry



- 1 reference mark  
2 M4 Depth 5 mm

CE

**Product characteristics**

|                     |                |
|---------------------|----------------|
| Resolution          | 250 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 | 250 resolution |
|------------|----------------|

**Operating conditions**

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

## Incremental encoder with solid shaft

RU-0250-I05/P1

| 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: 1 m, PUR; axial                      |      |  |
| pink (1)                                    |      | B inverted                                     |
| blue (2)                                    |      | +5V sensor                                     |
| red (3)                                     |      | 0 index  |
| black (4)                                   |      | 0 index inverted                               |
| brown (5)                                   |      | A  |
| green (6)                                   |      | A inverted                                     |
| lilac (7)                                   |      | failure inverted                               |
| grey (8)                                    |      | B  |
| pin 9                                       |      | n.c.   |
| white/green (10)                            |      | 0V (Un)  |
| white (11)                                  |      | 0V sensor                                      |
| brown/green (12)                            |      | +5V (Up)                                       |
| screen                                      |      | housing  |
| Connector: 1 x (ifm 1001.1)                 |      |  |
| Diagrams and graphs                         |      |  |
| Pulse diagram                               |      | <p>Output A</p> <p>Output B</p> <p>0 index</p> |
| Article no longer available - archive entry |      |  |