

## RU-1000-I05/S1

Article no longer available - archive entry



- |   |                |
|---|----------------|
| 1 | reference mark |
| 2 | M4 Depth 5 mm  |



|                     |                 |
|---------------------|-----------------|
| Resolution          | 1000 resolution |
| Shaft design        | solid shaft     |
| Shaft diameter [mm] | 6               |

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

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

|            |                 |
|------------|-----------------|
| Resolution | 1000 resolution |
|------------|-----------------|

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

# RU1132



## Incremental encoder with solid shaft

RU-1000-I05/S1

### Tests / approvals

|                      |                     |
|----------------------|---------------------|
| Shock resistance     | 100 g (6 ms)        |
| Vibration resistance | 10 g (55...2000 Hz) |

### Mechanical data

|                                               |                |
|-----------------------------------------------|----------------|
| Dimensions [mm]                               | Ø 58 / L = 46  |
| Material                                      | aluminum       |
| 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; radial

Connector: 1 x Bajonett (ifm 1000.2)



|        |                  |
|--------|------------------|
| Pin 1  | A                |
| Pin 2  | A inverted       |
| Pin 3  | B                |
| Pin 4  | B inverted       |
| Pin 5  | +5V sensor       |
| Pin 6  | 0 index          |
| Pin 7  | 0 index inverted |
| Pin 9  | +5V (Up)         |
| Pin 10 | 0V sensor        |
| Pin 11 | housing          |
| Pin 12 | 0V (Un)          |

### Diagrams and graphs

|               |                                                               |
|---------------|---------------------------------------------------------------|
| Pulse diagram | <p>Direction of rotation clockwise (looking at the shaft)</p> |
|---------------|---------------------------------------------------------------|