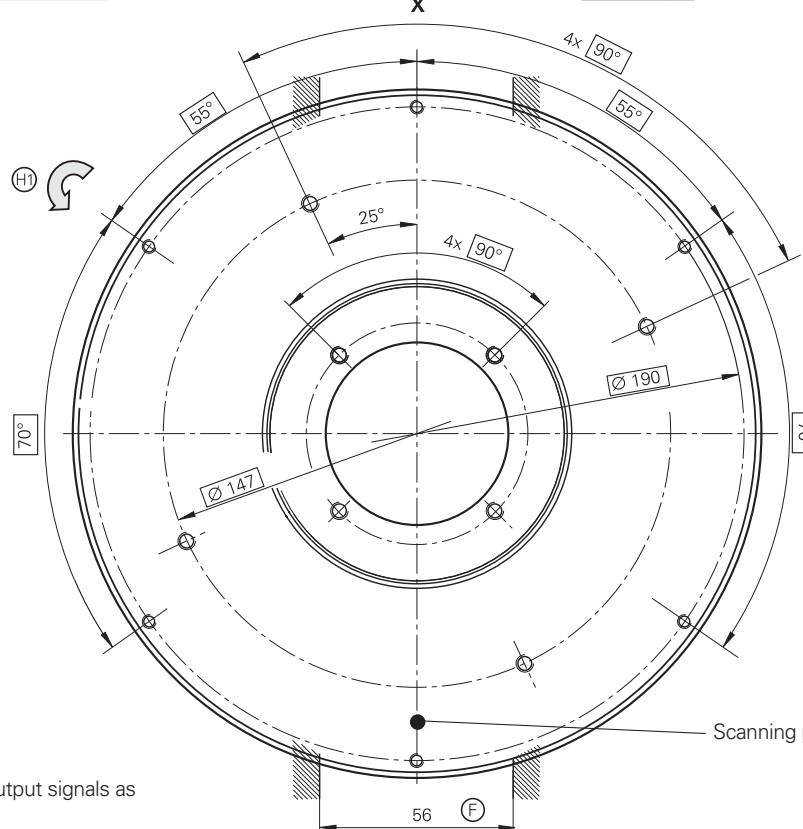
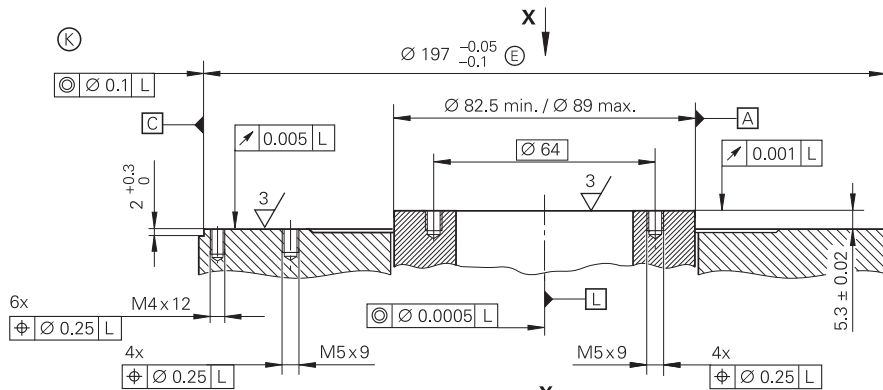
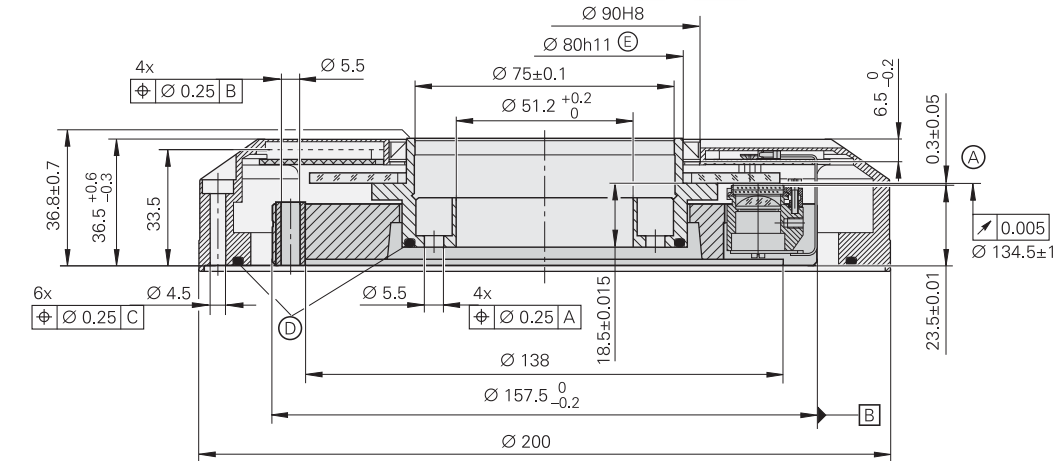


ERP 880

Incremental angle encoder for very high accuracy

- High resolution
- Protective cover as accessory



mm
 Tolerancing ISO 8015
 ISO 2768 - m H
 < 6 mm: ±0.2 mm

Cable radial, also usable axially

- Ⓐ = Disk-to-scanning-reticle gap
- Ⓛ = Axis of bearing rotation
- Ⓞ = Required mating dimensions
- Ⓢ = Space needed for service
- Ⓣ = Seal
- Ⓧ = Direction of shaft rotation for output signals as per the interface description

| ERP 880 | |
|---|---|
| Incremental signals | $\sim 1 V_{PP}$ |
| Signal periods | 180000 |
| Reference mark | One |
| Cutoff frequency -3 dB -6 dB | $\geq 800 \text{ kHz}$ $\geq 1.3 \text{ MHz}$ |
| System accuracy ¹⁾ | $\pm 1''$ |
| Accuracy of graduation | $\pm 0.9''$ |
| Power supply | DC 5V $\pm 10 \%$ |
| Current consumption Without load | $\leq 250 \text{ mA}$ |
| Electrical connection | <i>With cover:</i> Cable 1 m, with M23 coupling <i>Without cover:</i> Via 12-pin PCB connector (adapter cable ID 372 164-xx) |
| Cable length | $\leq 150 \text{ m}$ (with HEIDENHAIN cable) |
| Hub inside diameter | 51.2 mm |
| Mech. permissible speed | $\leq 1000 \text{ min}^{-1}$ |
| Moment of inertia of rotor | $1.2 \cdot 10^{-3} \text{ kgm}^2$ |
| Permissible axial motion of measured shaft | $\leq \pm 0.05 \text{ mm}$ |
| Vibration 55 to 2000 Hz Shock 6 ms | $\leq 50 \text{ m/s}^2$ (EN 60068-2-6) $\leq 1000 \text{ m/s}^2$ (EN 60068-2-27) |
| Operating temperature | 0 °C to 50 °C |
| Protection* EN 60529 | <i>Without cover:</i> IP 00 <i>With cover:</i> IP 40 <i>With cover and rotary shaft seal:</i> IP 64 |
| Starting torque | – 0.25 Nm |
| Weight | 3.0 kg 3.1 kg incl. cover |

* Please select when ordering

¹⁾ Before installation. Additional error caused by mounting inaccuracy and inaccuracy from the bearing of the measured shaft are not included.

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