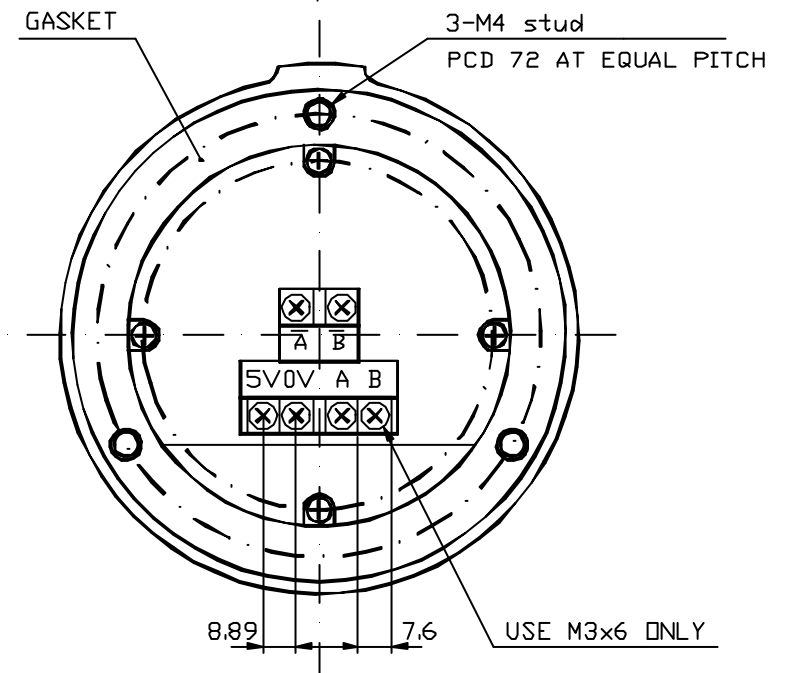
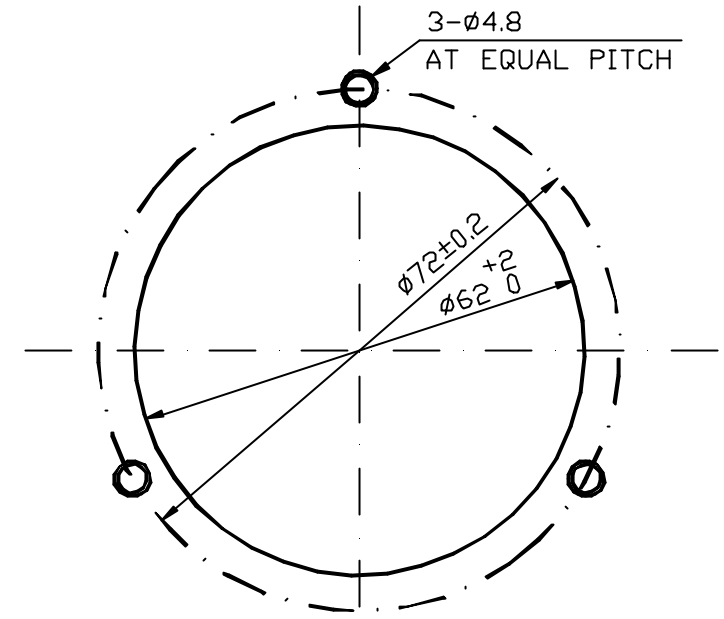
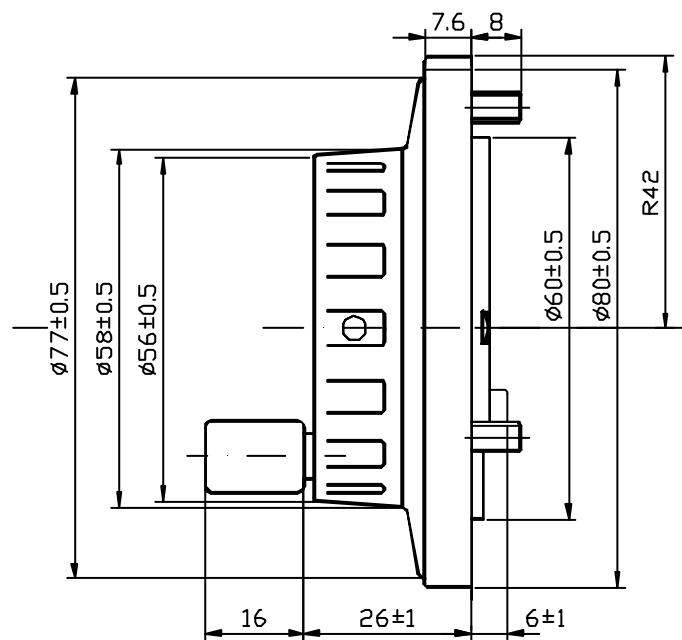
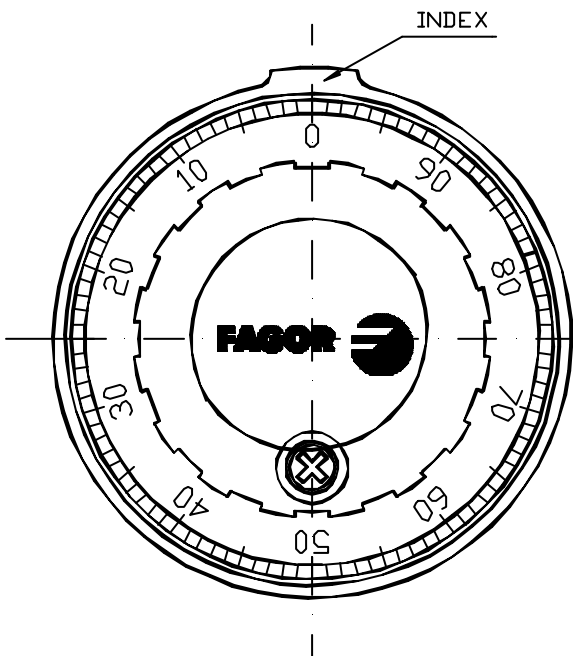




# FAGOR HANDWHEEL MODEL: UFO-01-2D-18

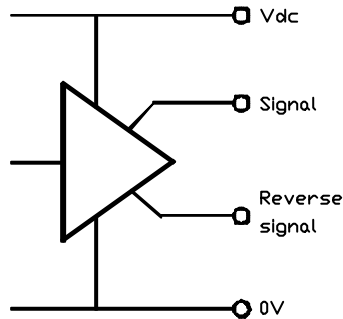
Manual version: 0202



**ELECTRICAL SPECIFICATIONS:**

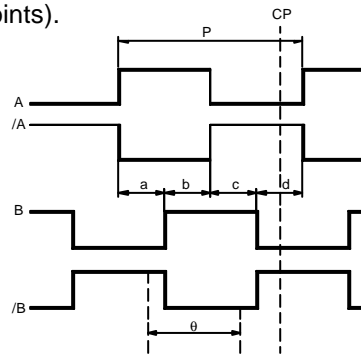
- Power source:** ..... + 5 Vdc  $\pm$  5%
- Current consumption:** ..... 150mA or less (No load).
- Lines per turn:** ..... 100P/R.
- Output signal:** ..... Two trains of pulses A and B shifted 90° and their inverted signals.
- Output voltage:** ..... [H] level is 2.5 V or more ( $I_{OH}$ : -20mA).  
[L] level is 0.5 V or less ( $I_{OL}$ : 20mA).
- Maximum Response Frequency:** ..... 5Khz
- Response speed of output voltage:**..... 200 nsec. or less (Output current is 20mA)  
(Rise and Fall time)
- Maximum Sink current:** ..... 20mA or less (at «L» level)
- Dielectric resistance:** ..... 50MOhms or more (500V isolation tester between 0 and case)

**Output circuit (D):**



**Output waveform:**

CW rotation -> Clockwise rotation as viewed from the front side (CP: click points).



$a, b, c, d = P/4 \pm P/6$

**MECHANICAL SPECIFICATIONS:**

- Starting Torque:**..... 0.0196 to 0.05886 Nm (at 20° C)
- Maximum load to shaft:** ..... Thrust: 9.8 N.  
Radial: 19.6 N.
- Bearing life:** ..... Not less than 1 million rotations  
(at 200 rpm)
- Maximum turning speed:** ..... Peak 600 rpm normally not more than 200 rpm.
- Weight:** ..... 200gr or less
- Indication and click points:** ..... Difference between indication and engraved line on a wheel is within 1/4 of the wheel engraving pitch at each click point.
- Structure:** ..... The structure is vibration resistant and its front panel is protected against dust and oil.

**ENVIRONMENTAL SPECIFICATIONS:**

- Operating Temperature:**..... -10°C to 60°C
- Storage Temperature:** ..... -20°C to 70°C
- Humidity:** ..... 85% or less (no condensation)
- Vibration:** ..... 10 to 55 Hz. Amplitude: 1,5 mm p-p  
(X, Y and Z direction each for 2 hours)
- Shock:** ..... 50G / 11ms  
(X, Y and Z direction each for 3 cycles).

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