



HOUSED RESOLVER

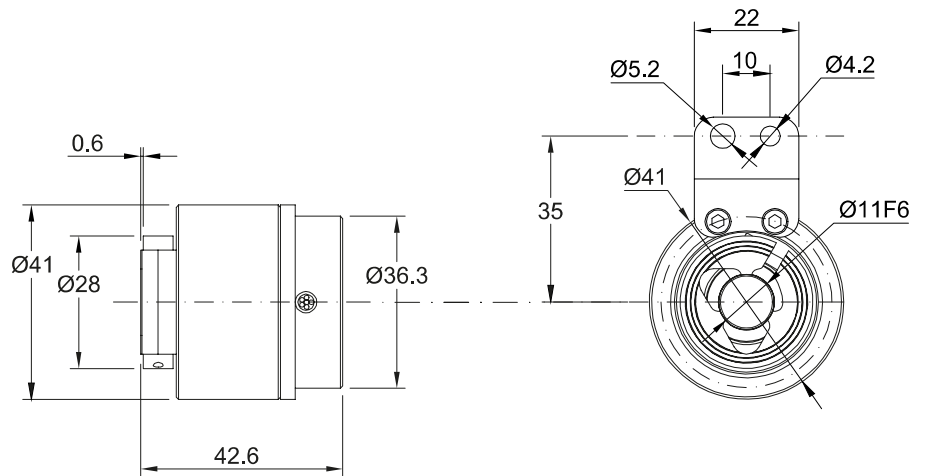
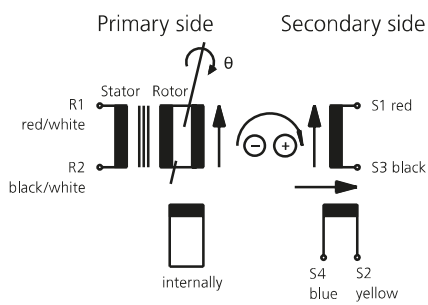
R36

FACTS

- Outer Ø: 36 mm
- Hollow Shaft Ø: max. 11 mm
- Shaft: on request
- Length: 42,6 mm



OPERATING PRINCIPLE



Input: $E(R1-R2) = E \cdot \sin(\omega \cdot t)$

Output: $E(S1-S3) = TR \cdot E(R1-R2) \cdot \cos \theta$

$E(S2-S4) = TR \cdot E(R1-R2) \cdot \sin \theta$

TR = Transformation ratio

Positive counting direction:

Rotor cw as viewed (X →)

ELECTRICAL DATA

Type

Pole Pairs
Transformation Ratio
Input Voltage
Input Current
Phase Shift
Accuracy
Null Voltage
Operating Temperature
R1-R2 DC Resistance at room temperature
S1-S3/S2-S4 DC Resistance at room temperature
Max. Permissible Speed
Shock
Vibration
High Pot Test Voltage Housing/Winding
High Pot Test Voltage Winding/Winding
Rotor / Stator
Lead Length

R36

1
0,5 ±10%
7 V
65 mA 7 V & 5 kHz
13° ±3° 7 V & 5 kHz
± 10'/20' spread ± 4/6' on request
≤ 30 mV
-40 °C ... +100 °C
37 Ohm ± 10%
102 Ohm ± 10%
≤ 5.000 rpm
≤ 1.000 m/s² (11 ms)
≤ 500 m/s² 10...500 Hz
≤ 500 VAC 50 Hz & 3 s
≤ 250 VAC 50 Hz & 3 s
completely impregnated
AWG 28 min. 300 mm