

MECHANICAL SPECIFICATIONS

Dimensions: see drawings
Shaft: stainless steel
Shaft loading: axial: 60 N; radial 60 N
Shaft rotational speed: 2000 RPM continuous for IP55 / 1500RPM max - IP65
Starting torque at 25°C: < 12 Nm
Moment of inertia: < 500 g cm²
Bearings life: 5 x 10⁹ rev. Min.
Weight: ~ 0,3 kg

ELECTRICAL SPECIFICATIONS

Output frequency: up to 100 kHz
Synchronous index output: on A default; B - A+B optional
Supply current without load: 40 mA max.
Protection: short circuit protection, no limit duration (only output LD2 and PP2) ; not against inversion of polarity

MATERIALS

Flange: aluminium non corroding
Housing: aluminium non corroding

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range: -10°C ÷ +100°C
temperature range: -30°C ÷ +100°C
Relative humidity : 98% RH without condensing
Vibrations: 10 g (From 10 up to 2.000 Hz)
Schock: 20 g (for 11 ms)



ORDERING CODE

(TSW XXX) * **(XX)** * **(XXXX)** * **(XXXXX)** **(X)** * **(XX)** * **(XXXX)** * **(XXnn)** * **(XXX-XXXX)** * **(Xnnn)**

ASSEMBLY

M1 case side spring
M2 collar side spring

TYPE

TSW801 unidirectional
TSW802 bidirectional
TSW803 unidirect + index
TSW804 bidirect + index

PULSE RATE

1024, 2000, 2500

extra pulse rate custom-made

Voltage supply

5 +5 V ±5 %
5/30 +5 ÷ +30 V (only for -10°C÷+85°C)

Output frequency

S from 0 up to 100 kHz

Protection class

K1 IP 55 (EN60529)
K5 IP 65 (EN60529) max 1500 RPM

Custom

OUTPUT CIRCUITS

PP2-5 Push-Pull 5 V output
PP2-530 Push-Pull 5/30 Vcc output (only with voltage supply 5/30 V)

LD Line driver RS422 (26LS31) only 5 V
LD2-5 Line driver 5 V output
LD2-530 Line driver 5/30 V output (only with voltage supply 5/30 V)

ELECTRICAL CONNECTIONS

OUTPUT: PP2 ; LD ; LD2

Pnnn cap radial cable gland with cable 1 ÷ 6 m long

nn Cable length (es. PL10 = 1 m. ... PL60 = 6 m)

Shaft

2000 Ø 20 mm H7
2400 Ø 24 mm H7
2500 Ø 25 mm H7
3500 Ø 35 mm H7
3800 Ø 38 mm H7
4397 Ø 43,97 mm H7
4400 Ø 44 mm H7

MECHANICAL ASSEMBLY

