

MECHANICAL SPECIFICATIONS

Dimensions: see drawings
Shaft loading: axial: 200 N; radial: 200 N
Shaft rotational speed: 10.000 RPM to short cycle time; 6.000 RPM continuous
Starting torque at 25°C: 0,025 Nm
Moment of inertia: 50 g cm²
Bearings life: 5 x 10⁹ rev. min.
Weight: ~ 0,5 kg

ELECTRICAL SPECIFICATIONS

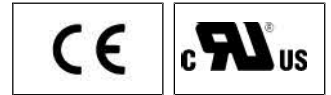
Output frequency: up to 100 kHz
Synchronous index output: on A default ; B - A+B optional
Supply current without load: 150 mA max.
Protection: short circuit protection, no limit duration (only output LD2 and PP2); against inversion of polarity (except 5Vcc)

MATERIALS

Flange: aluminium anticorrosional
Housing: Polyamid 66 (Pa66)
Coupling: Flexible coupling GE series

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range: -10°C + +70°C
Storage temperature range: -30°C + +80°C
Relative humidity : 98% RH without condensing
Vibrations: 10 g (From 10 up to 2.000 Hz)



ORDERING CODE

TKMXXXX * **=** * **XXXX** * **XXXXX** * **X** * **XX** * **XX,XX** * **XXnn** * **XXX-XXXX** * **Xnnn**

Custom

TYPE

TKM 7310 unidirectional
 TKM 7311 unidirect + index
 TKM 7320 bidirectional
 TKM 7321 bidirect + index

ASSEMBLY

= Default

PULSE RATE

2 - 5 - 10 - 20 - 25 - 30 - 32 - 36 - 40 - 50 - 60 - 64 - 72 - 80 - 88 -
 90 - 100 - 120 - 125 - 127 - 128 - 150 - 162 - 183 - 180 - 200 - 240
 - 250 - 254 - 256 - 300 - 314 - 360 - 375 - 390 - 400 - 500 - 512 -
 576 - 600 - 625 - 635 - 720 - 750 - 800 - 900 - 1000 - 1024 - 1200 -
 1250 - 1270 - 1440 - 1500 - 1800 - 2000 - 2048 - 2500 - 2540 -
 2700 - 3600

Alimentazione (Vdc) - Voltage supply

5 +5 V ±5 %
11/30 +11V +30 V
24/5 +11/30 V supply + 5 V output

Output frequency

S from 0 up to 50 kHz
V from 0 up to 100 kHz

Protection class

K1 IP 55 (EN60529) *only "PS" connection*
K4 IP 64 (EN60529)

OUTPUT CIRCUITS

S NPN standard (resistor included)
OC NPN open collector
P PNP (resistor included)
OP PNP open collector
PP2-5 Push-Pull 5 V output
PP2-1130 Push-Pull 11/30 Vcc output (only with voltage supply 11/30 V)
LD Line driver RS422 (26LS31) only 5 V or 24/5 V
LD2-5 Line driver 5 Vcc output
LD2-1130 Line driver 11/30 Vcc output (only with voltage supply 11/30 V)

ELECTRICAL CONNECTIONS

OUTPUT: S ; P ; OC ; OP ; PP2; LD; LD2 (except TKM7321)

Pnn on axial cable gland with cable 1 ÷ 6 m long;
PLnn radial cable gland with cable 1 ÷ 6 m long
PSnn cap radial cable gland with cable 1 ÷ 6 m long
S 07 on 7 pins axial MIL connector;
L 07 on 7 pins radial MIL connector;

OUTPUT: LD ; LD2 (only TKM7321)
Pnn on axial cable gland with cable 1 ÷ 6 m long;
PLnn on axial cable gland with cable 1 ÷ 6 m long;
PSnn cap radial cable gland with cable 1 ÷ 6 m long;
S 10 on 10 pins axial MIL connector;
L 10 on 10 pins axial MIL connector;
R1 on 12 pins radial "contact" connector

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

Shaft

6 Ø 6 mm
8 Ø 8 mm
9,52 Ø 9,52 mm
10 Ø 10 mm

MECHANICAL ASSEMBLY

= Default

