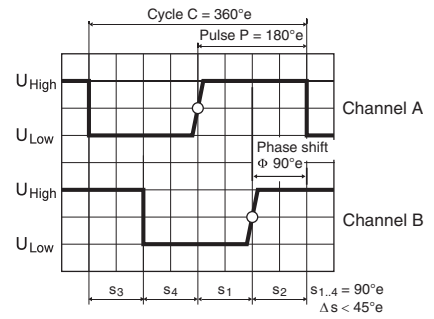
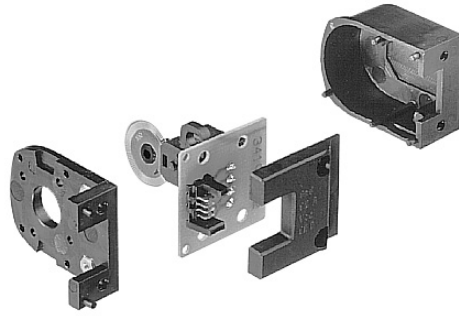
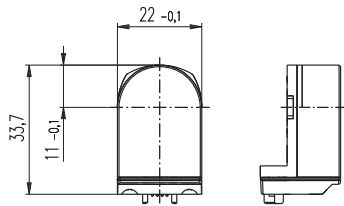


# Encoder Enc 22 100 Counts per turn, 2 Channels



Direction of rotation cw (definition cw p. 48)

- ☒ Stock program
- ☐ Standard program
- ☐ Special program (on request)

## Order Number

103937 143330 103935 110520 168045 110521

| Type  | 103937 | 143330 | 103935 | 110520 | 168045 | 110521 |
|---|--------|--------|--------|--------|--------|--------|
| Counts per turn                               | 100    | 100    | 100    | 100    | 100    | 100    |
| Number of channels                            | 2      | 2      | 2      | 2      | 2      | 2      |
| Max. operating frequency (kHz)                | 20     | 20     | 20     | 20     | 20     | 20     |
| Max. speed (rpm)                              | 12000  | 12000  | 12000  | 12000  | 12000  | 12000  |
| Shaft diameter (mm)                           | 2      | 2      | 3      | 2      | 3      | 3      |
| Orientation encoder to motor mounting defined |        | ± 5°   |        |        | ± 5°   |        |



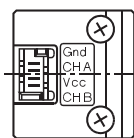
## maxon Modular System

| + Motor | Page  | + Gearhead           | Page    | Overall length [mm] / • see Gearhead |
|---------|-------|----------------------|---------|--------------------------------------|
| RE 25   | 77/79 |                      |         | 68.6                                 |
| RE 25   | 77/79 | GP 26, 0.5 - 2.0 Nm  | 227     | •                                    |
| RE 25   | 77/79 | GP 32, 0.75 - 4.5 Nm | 229     | •                                    |
| RE 25   | 77/79 | GP 32, 0.75 - 4.5 Nm | 230     | •                                    |
| RE 25   | 77/79 | GP 32, 1.0 - 6.0 Nm  | 232     | •                                    |
| RE 25   | 77/79 | GP 32 S              | 249-251 | •                                    |

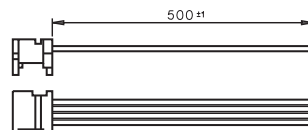
## Technical Data

|  |                         |
|--|-------------------------|
| Supply voltage $V_{CC}$  | 5 V ± 10%               |
| Output signal  | TTL compatible          |
| Phase shift $\Phi$   | 90°e ± 45°e             |
| Signal rise time<br>(typically, at $C_L = 25$ pF, $R_L = 11$ kΩ, 25°C) | 200 ns                  |
| Signal fall time<br>(typically, at $C_L = 25$ pF, $R_L = 11$ kΩ, 25°C) | 50 ns                   |
| Operating temperature range  | -20 ... +85°C           |
| Moment of inertia of code wheel  | ≤ 0.05 gcm <sup>2</sup> |
| Output current per channel   | min. -1 mA, max. 5 mA   |

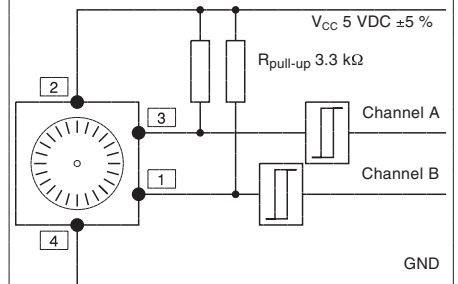
## Pin Allocation



Order number for connector with cable: 3419.506



## Connection example



Ambient temperature range  $\theta_U = 22 - 25^\circ\text{C}$