

## NEXACT® Drive Electronics

Low-Cost Drive Electronics for NEXACT® Piezo Stepping Drives



### E-862

- Step generator for NEXACT® piezo motors
- Integrated power amplifier
- Versatile and inexpensive
- Interface for automation
- Joystick for manual operation
- Evaluation of limit switch signals

#### OEM drive electronics for NEXACT® piezo motors

1 axis. Supports nanostep mode of PiezoWalk® drives for longer distances. Evaluation of limit switch signals.

#### Interfaces

Control via analog interfaces with a differential  $\pm 10$  V signal that controls the velocity. Manual operation with joystick.

## Specifications

|                    | E-862.100                               |
|--------------------|-----------------------------------------|
| Function           | Drive electronics for NEXACT® drives    |
| Drive type         | NEXACT®                                 |
| Axes               | 1                                       |
| Motion resolution  | 12 bit                                  |
| Input limit switch | 2 × TTL (active high, can be activated) |

| Electrical properties    | E-862.100  |
|--------------------------|------------|
| Output power             | max. 40 W  |
| Output voltage           | 0 to +45 V |
| Max. current consumption | 1.6 A      |

| Interfaces and operation  | E-862.100                                             |
|---------------------------|-------------------------------------------------------|
| Control                   | ±10 V analog velocity control                         |
| Motor connection          | HD Sub-D 15 (f)                                       |
| Manual control (optional) | Joystick, Y cable for control of 2 axes with joystick |

| Miscellaneous               | E-862.100                                                       |
|-----------------------------|-----------------------------------------------------------------|
| Operating voltage           | 24 V (external power adapter with 24 V/2 A required separately) |
| Operating temperature range | 0 to 50 °C                                                      |
| Mass                        | 0.64 kg                                                         |
| Dimensions                  | 166 mm × 100 mm × 46 mm (incl. mounting rails)                  |

Note: All specifications for NEXACT® drives refer to use with E-861 controller. Compared to the E-861 controller for NEXACT® drives, the E-862 drive electronics have a unipolar output voltage. Therefore, the driving force and velocity achievable with E-862 are derated by approx. 20 %.

## Ordering Information

### E-862.100

NEXACT® driver, 1 axis, OEM board, DSP-based