

# Series **AZ16E-300**

- **MEASURE**
- **INDICATE**



Battery-powered absolute 3-axis position indicator

**General:** Up to three external and reversible absolute sensors can be connected to the battery-powered position indicator AZ16E-300. In combination with pluggable magnetic sensors (cable length max. 20 m) the position indicator AZ16E-300 represents a stand-alone absolute measuring and indicating system.

The new Snap-In housing allows easy mounting in the defined panel cut out on the front side.

**Applications:** Manual slides, guiding and stop systems; where no power supply available.

**Features:**

- 7-digit LCD-display
- Adjustable reference value
- Sign, battery status, units and „°“-symbol
- Easy mounting via Snap-In Housing (compatible to Z16)
- Configurable display modes: mm/inch incl. fraction display
- Adjustable counting direction
- Adjustable decimal point and multiplication factor
- Key lock
- Up to three external magnetic sensors (switchable)
- Switch-over between incremental and absolute measuring
- 3 adjustable tool-offsets
- Optional 2 external inputs for special functions via RJ45
- Optional 2 external outputs via RJ45
- Possible interfaces RS232/RS422/RS485/868 MHz

Compatible to ELGO-measuring system AZ16E-300:

Absolute measuring-system



AZS8

## Technical specifications:

|  |   |
|--|---|
| Display  | LCD-display<br>7 decades with sign, battery status, units<br>and „°“-symbol |
| Perspective                                    | 12 o'clock  |
| Power supply                                   | Battery (1.5 V or 3 V)<br>- integrated or external                          |
| Current consumption<br>(with measuring system) | < 1 mA at 1.5 V   |
| Operating temperature                          | 0... +50 °C   |
| Storage temperature                            | -20... +80 °C   |
| Housing  | Norm panel housing, plastic, black  |
| Housing dimensions                             | W x H x D = 96 x 72 x 43 mm   |
| Installation depth<br>(with plug)              | 38 mm   |
| Panel cut out                                  | W x H = 93 x 67 mm  |
| Protection class                               | IP54  |
| Magnetic sensor AZS                            |   |
| Pole distance                                  | 4 (8 mm)  |
| Resolution                                     | 62.5 µm   |
| Max. measuring length                          | 8.0 m   |
| Sensor cable length                            | 0.1 m... max. 20 m  |
| Sensor cable                                   | Drag-chain suitable/ flexible/4-wire/ shielded                              |
| Interface                                      | RS485   |
| Housing  | Plastic ABS   |
| Protection class                               | IP67  |
| Bending radius (cable)                         | Min. 25 mm  |
| Distance sensor/tape                           | Max. 1.5 mm (without cover band)  |

## Order reference:

For orders please use the following order code:

AZ16E -  $\bar{A} \bar{A} \bar{A} - \bar{B} - \bar{C} - \bar{D} \bar{D}$

### A SN-Number

300 3-axes display (AZS sensor available as accessory)

### B Power supply

1 1 x c battery (intern)

### C Sensor cable

1 Pluggable via RJ45

### D Options

0 Mounting system

AG Modular housing

Example:

AZ16E - 300 - 1 - 1 - AG  
A A A - B - C - D D

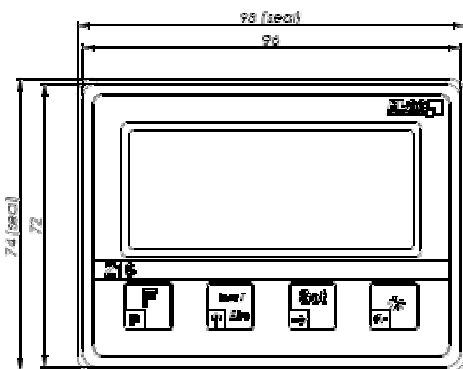
AZ16E ELGO standard with 3-axes display (sensors AZS must be ordered separately), supply via an internal c battery, sensor cable is pluggable via RJ45 with modular housing.

Your order:

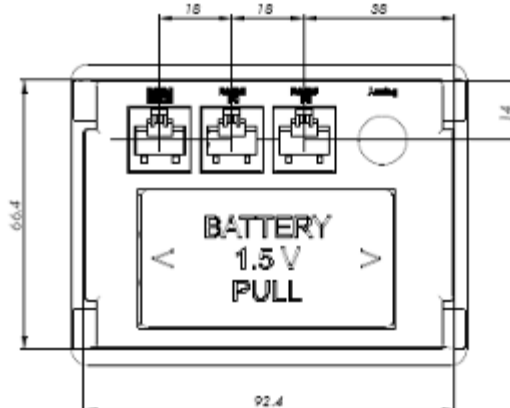
AZ16E -  $\bar{A} \bar{A} \bar{A} - \bar{B} - \bar{C} - \bar{D} \bar{D}$

## Dimensions:

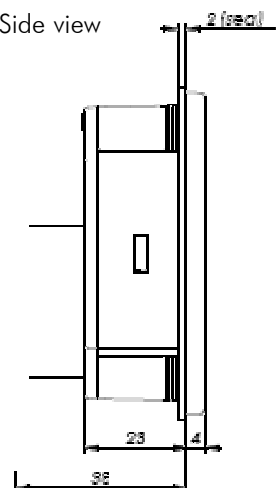
Front view



Back view



Side view



## Order reference:

For orders please use the following order code:

AZS -  $\overline{A} \overline{A} \overline{A} - \overline{B} - \overline{C} \overline{C} . \overline{C} - \overline{D}$

### A SN-Number

000 ELGO standard

001 First special version

### B Sensor type

1 AZ-sensor-AZ8

(max. 8 m measuring length)

### C Sensor cable length

Available standard lengths: 1/2/3/5 m

(other lengths for surcharge; max. 20 m)

### D Cable options

1 Cable outlet with RJ45-plug  
(standard)

Example:

AZS -  $\underline{0} \underline{0} \underline{0} - \underline{1} - \underline{0} \underline{1} . \underline{0} - \underline{1}$   
A A A - B - C C . C - D

AZ-sensors ELGO standard, with max. 8 m measuring length, 1 m sensor cable length and a cable outlet with RJ45-plug (standard).

Your order:

AZS -  $\overline{A} \overline{A} \overline{A} - \overline{B} - \overline{C} \overline{C} . \overline{C} - \overline{D}$

## Accessories:

AZS 8

Magnetic sensor for AZ16E

### Battery case

1 x C Mounting (710000131) or

1 x C Open (710000132)

Battery case with battery holder, battery and lug

Battery holder, battery and lug

AB20-40-10-1-R-11

Magnetic tape for AZ16E

Magnetic tape end cap 10 mm - Set

2 end caps (10 mm) and 2 M3 screws; additional fixation in the radial and linear area, as well as a protection of the magnetic tape ends.

Order No. 731031002

Magnetic tape end cap 10 mm

1 end cap (10 mm)

Order No. 731031000

SB-20-10-01-14404 (AB10)

Cover band, width 10 mm, using double-sided adhesive tape

FS-XXXX

Aluminum profile rail with 2 slots for fixation of a 10 mm and 20 mm wide magnetic tape. Without tape!

(XXXX = length in mm)

