

AZ16E

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



Battery-powered absolute position indicator

General: The position indicator AZ16E is an independent absolute measuring and display system that operates completely independent.

The system consists of:

1. a position indicator
2. an external absolute magnetic sensor with a pluggable cable (max. length 20 m)
3. an absolute encoded magnetic tape with max. 8 m measuring length

Like all the position indicators of the AZ-series the AZ16E features extensive programming options (e.g. inch-mode with fraction display, „^o“ -symbol). AZ16E is also available with a pluggable battery case and can be operated by a power supply in this option. Thanks to low-power mode, the battery lasts up to 4 years.

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 is available or the position indicator is moved with the axis and a power supply cable should be avoided.

Features:

- User-friendly programming
- Measuring lengths up to 8 meters
- External magnetic sensor (pluggable)
- Permanent preservation of all parameters
- Battery life up to 4 years
- Activatable AUTO POWER OFF function with adjustable switch-on time
- Resolution 0.1 mm
- Switch-over between incremental and absolute measuring
- mm or inch-mode possible
- Fraction display possible in inch-mode
- Keys individually activatable or deactivatable
- Adjustable reference value and 3 adjustable tool-offsets
- Symbols individually activatable / deactivatable (mm/INCH/arrows, ...)

ELGO measuring system compatible to AZ16E:



Technical specifications:

Display	LCD-display 7 decades with sign, battery status, units and „ μ “-symbol
Perspective	12 o'clock
Power supply	Battery (1.5 V or 3 V) - integrated or external
Current consumption (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
Dimensions	W x H x D = 96 x 72 x 43 mm
Install depth with plug	38 mm
Panel cut out	W x H = 93 x 67 mm
Protection class	IP54
Magnetic sensor AZS	
Pole length	4 (8 mm)
Resolution	62.5 μ m
Max. measuring length	8.0 m
Sensor cable length	0.1 m... max. 20 m
Sensor cable	Drag-chain suitable/high- 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)

Example:

AZ16E - 0 0 0 - 1 - 0 1 0 - 0 - X
A A A - B - C C . C - D - E

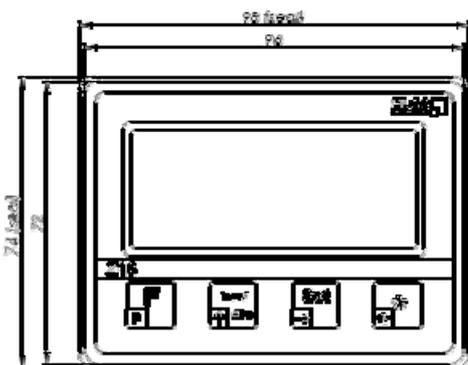
AZ16E ELGO standard, with integrated battery case incl. cover with 1m sensor cable length and a fixed cable outlet. (Additional options on request).

Your order:

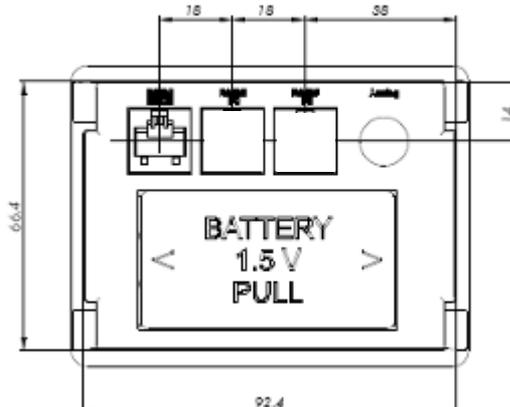
AZ16E - A A A - B - C C . C - D - E

Dimensions:

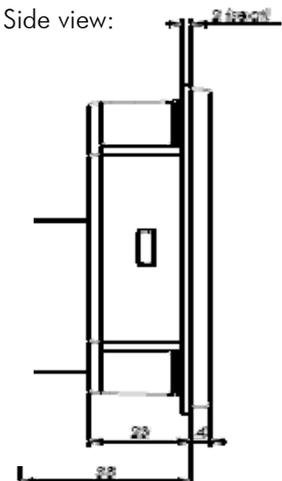
Front view



Back view



Side view:



Order reference:

For orders please use the following order code:

AZ16E - A A A - B - C C . C - D - E

A SN-Number

- 000 ELGO standard
- 001 first special version
- 600 with integrated radio module 868 MHz

B Power supply

- 1 Battery case integrated incl. cover (1x TypC / LR14 / baby)
- 6 Removable screw (2-Pol. / 1 mm²) (for 1.5 V or 3 V)

C Sensor cable length (defined by AZS)

D Cable options

- 0 fixed cable outlet
- 1 pluggable via RJ45-plug

E Options

- CAP with integrated voltage stabilizing capacitor for battery change without actual value loss

Additional options (only on request)

- > 2 external inputs 5... 30V via RJ45
- > 2 transistor outputs (open collector / max. 30 VDC / max. 30 mA) via RJ45
- > Power supply and interface (RS232/485) via a single cable with RJ45-plug

Order reference:

For orders please use the following order code:

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

A SN-Number

000 ELGO standard
001 First special version

B Sensor type

1 AZ-sensor-AZ8
(for 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-Sensor ELGO standard, with max. 8 m measuring length, 1 m sensor cable length and an cable outlet with RJ45-plug (standard).

Your order:

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

Accessories:

AZS 8 Magnetic sensor for AZ16E

Battery case

1 x C Mounting (710000131) or Battery case with battery holder, battery and lug
1 x C Open (710000132) 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, with double-sided adhesive tape

FS-XXXX Aluminum rail with 2 slots for fixation of a 10 mm and 20 mm wide magnetic tape. Without tape!
(XXXX = length in mm)

