AZ16E

- ■ *MEASURE*
- ■ *INDICATE*

Battery-powered absolute position indicator

AZ16E	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, „°"-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:

AZS8

Technical specifications:

Display	LCD-display 7 decades with sign, battery status, units and „°"-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 μm
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

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)
      (for1.5 V or 3 V)

C Sensor cable length (max. 20 m)

D Cable options
  0 fixed cable outlet
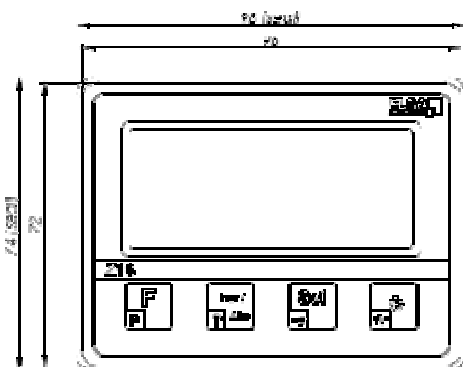 **1** pluggable via RJ45-plug

E Options
  CAP with integrated voltage stabelizing capacitor for battery change without actual value loss
  24V for external power supply 10… 30 VDC
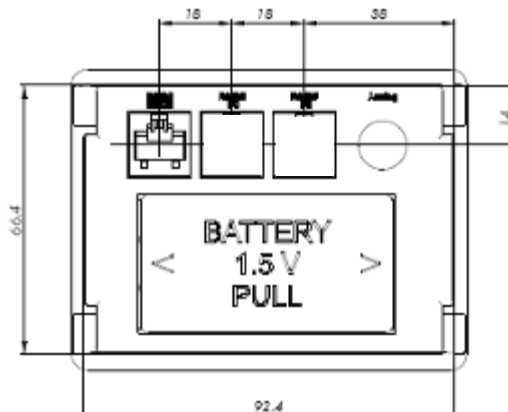
  Additional options (only on request)
  -> 2 external inputs 5… 30V via RJ45
  -> 2 transistor outputs (open collector /max. 30 VDC / max. 30 mA) via RJ45
  -> Power supply and interface (RS232/485) via a single cable with RJ45-plug
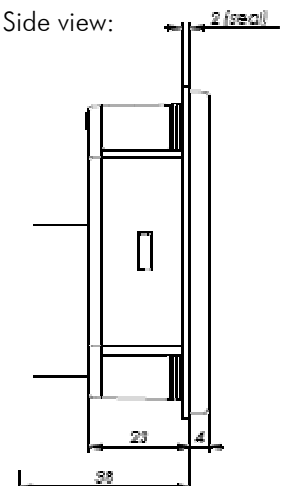
Dimensions:

Front view

Back view

Side view:

Order reference:

For orders please use the following order code:

AZS - _ _ _ - _ - _ _._ - _
    A A A - B - C C .C - 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 - 0 0 0 - 1 - 0 1 . 0 - 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 - _ _ _ - _ - _ _._ - _
    A A A - B - C C .C - 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)