

AZ16

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



Battery-powered absolute position indicator
with integrated sensor

AZ16 Battery-powered absolute position indicator with integrated sensor

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

The position reading sensor is integrated in the indicator. A version with external sensor is also available (AZ16E). Included in the delivery is a guide rail with the length of the distance, which has to be measured (please indicate length with your order, max. length 2.0 m). It is possible to line up four 2 m rails to achieve the max. measuring length of 8 m. Guide rails up to 2 m are already equipped with the necessary absolute coded magnetic tape. The magnetic tape will be delivered separately if more than one guide rail is needed (measuring lengths longer than 2 m). The carriage for the guide rail is mounted to the rear of the indicator.

On request the system can be supplied also without carriage and guide rail, then the user must provide and guarantee for a suitable mechanical guiding system. It must be ensured that the sensor (integrated in the indicator) keeps the correct distance (0... 1.5 mm) along the whole measuring distance coplanar to the magnetic tape.

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

Applications: Manual slides, guiding and stop systems, where no power supply is available or if 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
- 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, ...)

Technische Daten:

Display	LCD-display 7 decades with sign, battery status, units, and ° symbol
Perspectiv	12 o'clock
Power supply	Battery (1.5 V bzw. 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

Order reference:

For orders please use the following order code:

AZ16I - $\overline{A} \overline{A} \overline{A} - \overline{B} - \overline{C} - \overline{D} \overline{D} \overline{D}$

A SN-Number

000 ELGO Standard

001 first special version

B Versorgung

2 2x battery (type AA) internal

C Housing/guiding system

0 for aluminum guide rail (25 x 6 mm)

D Options

CAP with integrated voltage stabilizing 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

Example:

AZ16I - $\underline{0} \underline{0} \underline{0} - \underline{2} - \underline{0} - \underline{C} \underline{A} \underline{P}$
 $\overline{A} \overline{A} \overline{A} - \overline{B} - \overline{C} - \overline{D} \overline{D} \overline{D}$

AZ16I ELGO standard with integrated battery (type AA), an aluminum guide rail (25 x 6 mm), with integrated voltage stabilizing capacitor for battery change

Your order:

AZ16I - $\overline{A} \overline{A} \overline{A} - \overline{B} - \overline{C} - \overline{D} \overline{D} \overline{D}$

Accessories:

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, 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)

