

Z15/Z16/Z17 - battery powered length measuring systems

The advantages of Z15/Z16/Z17:

- Owing to battery supply completely independently
- battery status monitor
- up to 12 months continuous operation *)
- permanent data receipt
- no wiring necessary
- compact and space-saving
- complete with sensor for magnetic linear measurement
- simple operation and assembly
- wear-free measurement principle
- fraction of inches possible (Z16 and Z17 only)

*) dependent on battery quality

Applications

Z15/16/17 are especially suited for installation on moving slides stop- and gauge systems.



Z16 Example for an application "manual stop system"

The systems Z15/Z16 and Z17 consist of a magnetic sensor, which is fix connected to a display unit over a tug chain suitable cable (length 0.1... 1 m). Therefore no wiring or connectors are necessary when installing.

This units are especially suited for installation on moving slides and gauge systems.

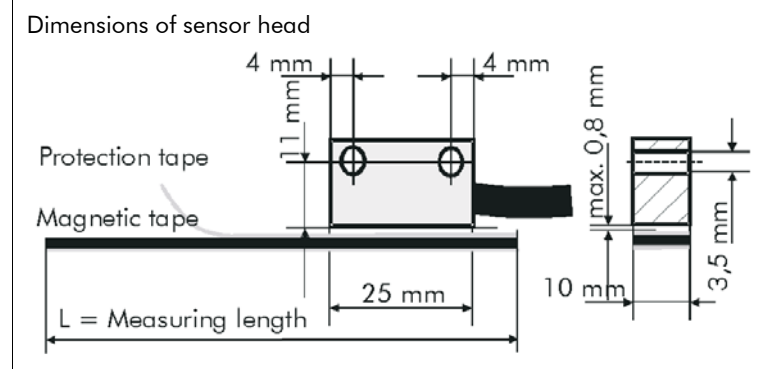
The sensor head resists to any kind of dust, dirt and water-jet and is absolutely abrasion resistant. Its protection class is IP 67.

The display unit possesses large programming possibilities (impulse scaling factor, decimal places, counting direction, incremental measurement and set function, adjustable reference value as well as a switch over for mm or inch operation).

Due to its economical LCD display Z15/Z16/Z17 can work in permanent operation up to one year, a good battery quality pre-conditioned. Data and parameter remain in case of changing battery.

The battery box is integrated on the rear side of the indicator. If the battery (commercial 1,5 V battery type "C") is then renewed, then all data remain apart from the actual value momentary and parameters receive.

The resolution of the magnet sensor amounts to 0.1 mm. Its max. operation speed is with 2.5 m/s.



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Technical specifications

Max speed	max. 2,5 m/s
Resolution	0,1 mm
System accuracy in mm by 20 °C	+/- (25 + 20 x L)
Distance	L = Measuring length max. 0.8 mm
Stock temperature	0 - 70 °C
Humidity	not condensing, max. 80 %
Operation height	max. 2000 m over NN

Display Z15	LCD-Display, 8 mm high, 6 digits with sign, battery status and measuring unit
Display Z16	LCD-Display, 11 mm high, 8 digits with sign, battery status and measuring unit
Display Z17	LCD-Display, 11 mm high, 8 digits with sign, battery status and measuring unit
Power supply	1,5 VDC (micro cell)
Consumption	< 1 mA (at 1,5 V)
Keypad	Membrane keypad
Mounting position	arbitrary
Protection class	IP 43 (installed state)
Operating temperature	+ 5...+50 °C

Mechanical data Z15	
Housing	Panel housing (black, plastic)
Dimensions	W x H = 72 x 48 mm
Cut out	W x H = 69 x 45 mm
Install depth	68 mm incl. sensor wire
Mechanical data Z16	
Housing	Metal, black
Dimensions	W x H = 96 x 72 mm
Cut out	W x H = 92 x 66 mm
Install depth	40 mm incl. sensor wire
Mechanical data Z17	
Housing	Plastic, black
Dimensions	W x H = 96 x 48 mm
Cut out	W x H = 92 x 44 mm
Install depth	43 mm incl. sensor wire

Sensor	
Operating temperature	0... + 50 °C
Cable length	0.1 up to max. 1,0 m
Bend radius	min. 60 mm
Protection Class	IP 67

Magnetic tape	
Operating temperature	0 - 50 °C
Coefficient of extension	$\alpha = 16 \times 10^{-6} K^{-1}$
Linear extension	$\Delta L = L \times \alpha \times \Delta\vartheta$

Type designation

Please following order code:

Z15 - CCC - DDD - EE - FFFF
 Z16 - CCC - DDD - EE - FFFF
 Z17 - CCC - DDD - EE - FFFF

Examples: Z15-000-001-1.0
 Z16-000-001-0.5
 Z17-000-001-0.5

- C Version**
 - 000 Elgo standard
 - 001 1. Customer specified version
- D Supply**
 - 001 1.5 VDC (Battery operation)
- E Length of sensor wire**
 - 0.1 0.1 m
 - ... up to
 - 1.0 max. 1.0 m
- F Options**
 - N without housing

Magnetic tape

MB20.25 - _ _ . _ _
 A A . A

Example: MB20.25-01.0
 MB20.25-32.0

- A Magnetic tape**
 - 01.0 1,0 m (minimum length)
 - 32.0 32,0 m (maximum length)

Accessories

- MW-Z16** Assembly mounting angle for Z16
- MB2025** Magnetic tape, pole division 2,5 mm
- FS2025** Guide rail with MB2025
- FW2060** Guide carriage for sensor



Z15, Z16 and Z17 Series

The complete battery powered length measuring systems

