![ELGO ELECTRONIC logo]

IZ16E-600

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

Battery-powered position indicator with an external sensor and 868 MHz radio transmission

| IZ16E-600 | Battery-powered position indicator with radio transmission |

General: IZ16E-600 [SLAVE] is equipped with a 868 MHz radio module (ISM-Band) for transmitting the actual values (display value). Accessories include a 868 MHz transceiver [MASTER] with an RS232 interface or optional as USB-stick, which is precisely calibrated to the IZ16E-600.

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

IZ16E-600 and the 868 MHz transceivers are equipped with integrated powerful ceramic antennas. External antennas are not necessary.
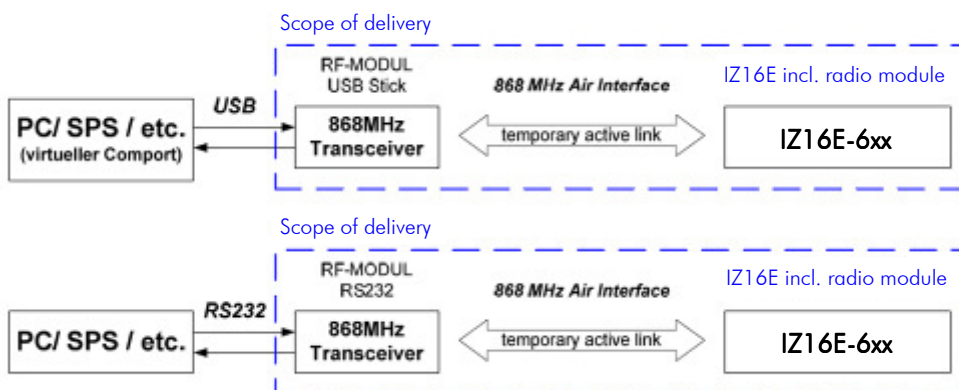
An important feature of the radio module is the bi-directional data transmission with CRC-checksum calculation and five times repeating of non-acknowledged radio telegrams as well as the output of a receipt.
By intervisibility transmission range of up to 200 m is possible.

Features:

- 7-digit LCD-display, digit height 14 mm
- With sign and special symbols
- Battery status indicator
- „°"-Symbol with angular measurements possible
- Fraction display in inch-mode
- Internal or external battery case
- Resolution up to 0.01 mm
- Display in inch-mode „0.001 Inch" possible
- Tool-offset function
- Easy mounting (Snap-In Housing)
- Display with integrated radio module 868 MHz
- Auto-Power-Off function with adjustable switch-on time
- Auto-Power-On through sensor movements or keystroke

The bi-directional radio transmission serves as a cable replacement between MASTER and SLAVE:

Technical Specifications:

LCD-Display	7 decades, with sign, battery status, and units
Perspective	12 o'clock
Power supply	Battery (1.5 V or 3 V - 24 V on request) -integrated or external
Power consumption (with measuring system)	< 1 mA at 1.5 V without radio transmission Ca. 5 mA at 1.5 V with constant radio transmission
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
Install depth with plug	30 mm (depending on version)
Panel cut out	W x H = 93 x 67 mm
Protection class	IP54

868MHz - Specifications	
Range	Up to 200m (at intervisibility))
HF– data rate	38 kbps
Power output	Typ. 2 dBm e.i.r.p. (10dBm at 50 Ω)
Insput sensitivity	Up to –102 dBm (-110 dBm at 50 Ω)
Freddquency range	863 - 868.6 MHz
Channal spacing	50 KHz
Modulation method	2-FSK, MSK
Antenna	Integrated ceramic antenna
Topology	Point to Point
Transmission	■ Bi-directional ■ Half-duplex ■ Incl. receipt ■ With CRC-checksum calculation ■ Five-times repeating of non-acknowledged radio telegrams
Addressing	2 Byte address space, max. 64000 different addresses
Conformity (Europe)	EN 300220-1, EN 301489-1/-3, EN 60950-1, EN 50371

Magnetic sensor MS20.25	
Pole distance	2.5 mm
Sensor cable length	0.1… max. 2.0 m
Sensor cable	Drag-chain suitable, 6-wire, twisted in pairs and double shielded
Housing	Zinc die cast
Protection class	IP67
Operating temperature	0… +50 °C
Storage temperature	-10… +60 °C
Mounting position	User-defined
Bending radius (cable)	Min. 60 mm
Distance sensor/tape	Max. 1.0 mm (without cover band))

Order reference:

For orders please use the following order code:

IZ16E - _ _ _ - _ - _ _ . _ - _ - _
        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
6 pluggable spring clip (2-Pol. / 1 mm²)
(for 1.5 V or 3 V)

C Sensor cable length (maximal 2 m)

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

E Options
CAP integrated voltage stabilizing capacitor for battery change without actual value loss
24V for external power supply 10… 30 VDC

Example:
IZ16E - 6 0 0 - 1 - 0 2 . 0 - 0 - X
         A A A - B - C C . C - D - E

IZ16E with integrated radio module 868 MHz, with integrated battery case incl. cover, with 2m sensor cable length and fixed cable outlet

Your order:

IZ16E - _ _ _ - _ - _ _ . _ - _ - _
        A A A - B - C C . C - D - E

Accessories:

MS20.25	Magnet sensor for IZ16E-600
Battery case 1xC installed (710000131) <u>**or**</u> **1xC open** (710000132)	Battery case with battery holder, battery, and cable lug Battery holder, battery, and cable lug
MB20-25-10-1-R	Magnetic tape for IZ16E-600
Magnetic tape end cap 10 mm - Set	2 end caps (10 mm) and 2 x M3 screws; Fixation in the radial and linear area, as well as a protection of the magnetic tape ends <u>*Order No. 731031002*</u>
Magnetic tape end cap 10 mm	1 end cap (10 mm) <u>*Order No. 731031000*</u>
SB-20-10-01-14404 (AB10)	Cover band, width 10 mm, single-sided with double-sided adhesive tape
FW-2060	Carriages for sensor
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)