NOTIFIER M710E-CZ Single Input Module Instruction Manual

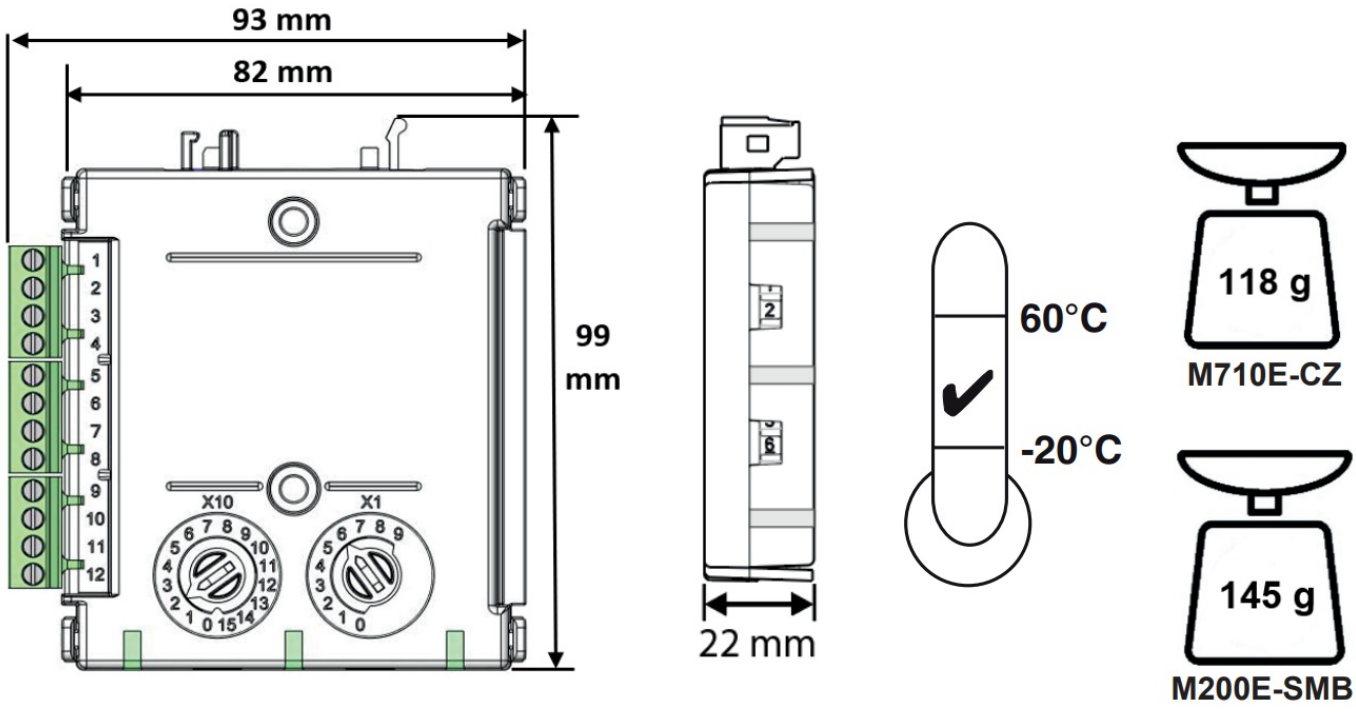
NOTIFIER M710E-CZ Single Input Module

Contents

INSTALLATION INSTRUCTIONS – M710E-CZ CONVENTIONAL ZONE INTERFACE MODULE

This manual is intended as a quick reference installation guide. Please refer to the control panel manufacturers installation manual for detailed system information.
The M700 series of modules are a family of microprocessor controlled interface devices permitting the monitoring and/or control of auxiliary devices. The M710E-CZ provides an interface between a zone of System Sensor manufactured conventional type fire detection devices and an intelligent signaling loop.
A single tri-cooler LED indicates the status of the module. In normal conditions, the LED can be set by command from the control panel to blink green when the module is polled. In the case of a fire alarm on the conventional zone, the LED is switched on constant red by panel command. If a fault is detected on the conventional zone or the zone supply voltage drops below 18V, or a fault with the external power supply is signaled, the LED will blink yellow if enabled on the control panel. When a short circuit is detected on the loop to either side of the module, the LED is switched to show a constant yellow light.
This module does not require maintenance.

DIMENSION



SPECIFICATIONS

Intelligent Loop

- **Operating Voltage Range:** see S00-7100
- **LED Cutoff Voltage:** 16.5VDC
- **Max. Standby Current (µA @24 V and 25o C) External Supply**
- **Conventional Zone:**
- **No Communication:** 120
- **Max. Standby Current (mA @24 V and 25o C) Conventional Zone connected to Capacitive EOL only, Loop Powered Conventional Zone:**
- **No Communication:** 1.3
- **LED Current (Red)** 1.3mA
- **LED Current (Yellow):** 4.5mA
- **Isolator Features:** see S00-7100

Conventional Zone

- **Supply Voltage:** 18 to 32 VDC (either from loop or external supply)
- **Maximum Standby Load Current:** 3mA for detectors
- **Maximum Zone Load:** 17.5mA (Limited internally)
- **Maximum Conventional Line Resistance: 50 Ohm (both legs)**
- **End of Line Capacitor:** 47µF non-polarised. M200E-EOL-C supplied

General

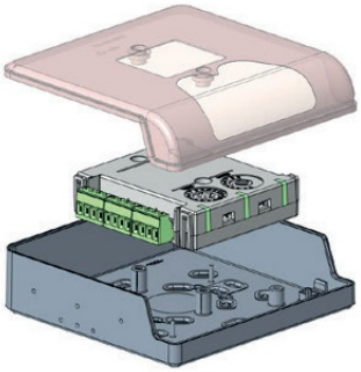
- **Humidity:** 5% to 95% relative humidity (non-condensing)
- **Ingress protection:** IP44 (Mounted in M200E-SMB)
- **Maximum Wire Gauge:** 2.5mm²

INSTALLATION

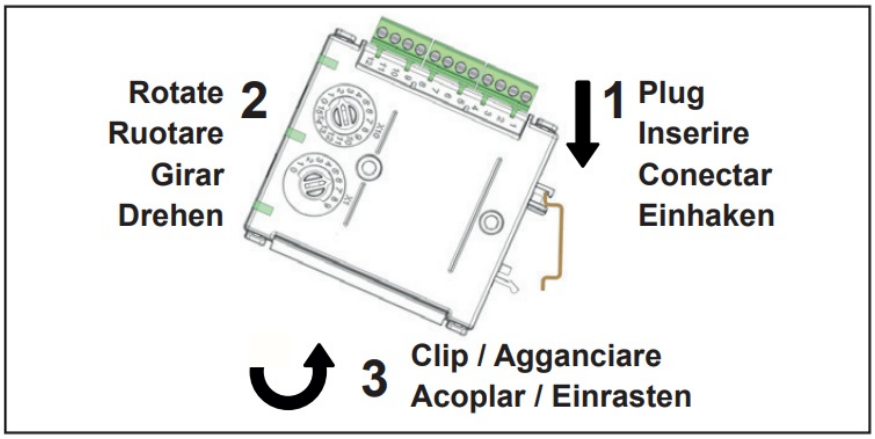
Note: These modules must only be connected to control panels using compatible proprietary analogue addressable communication protocols for monitoring and control.
M700 series modules can be mounted in several ways (**See Figure 1**):
1:1 An M200E-SMB custom low profile surface-mounting box. The SMB Base is affixed to mounting surface, and then the module and cover are screwed onto the base using the two screws supplied. Box dimensions: 132mm(H) x 137mm(W) x 40mm(D)
1:2 The DIN bracket on top allows mounting onto standard 35mm x 7.5mm “Top Hat” DIN rail inside a control panel or other suitable enclosure. Install and remove as shown in **Figure 1:2**
Wiring to all series M700 modules is via plug in type terminals capable of supporting conductors up to 2.5mm²

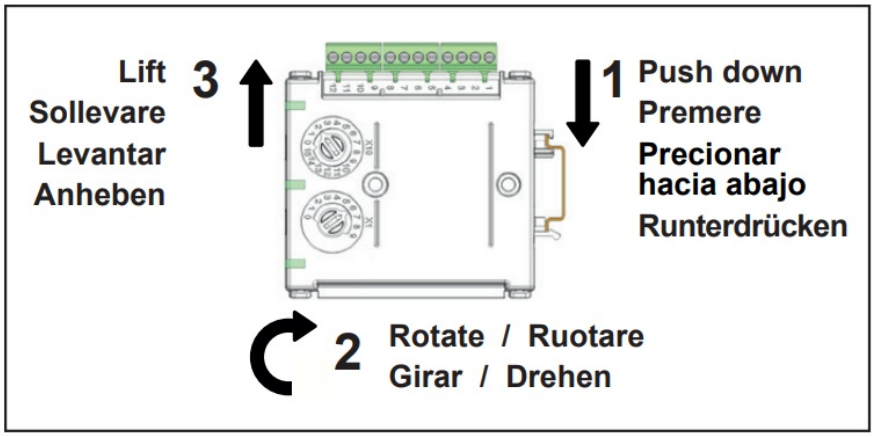
Fig./Abb. 1

1:1 M200E-SMB



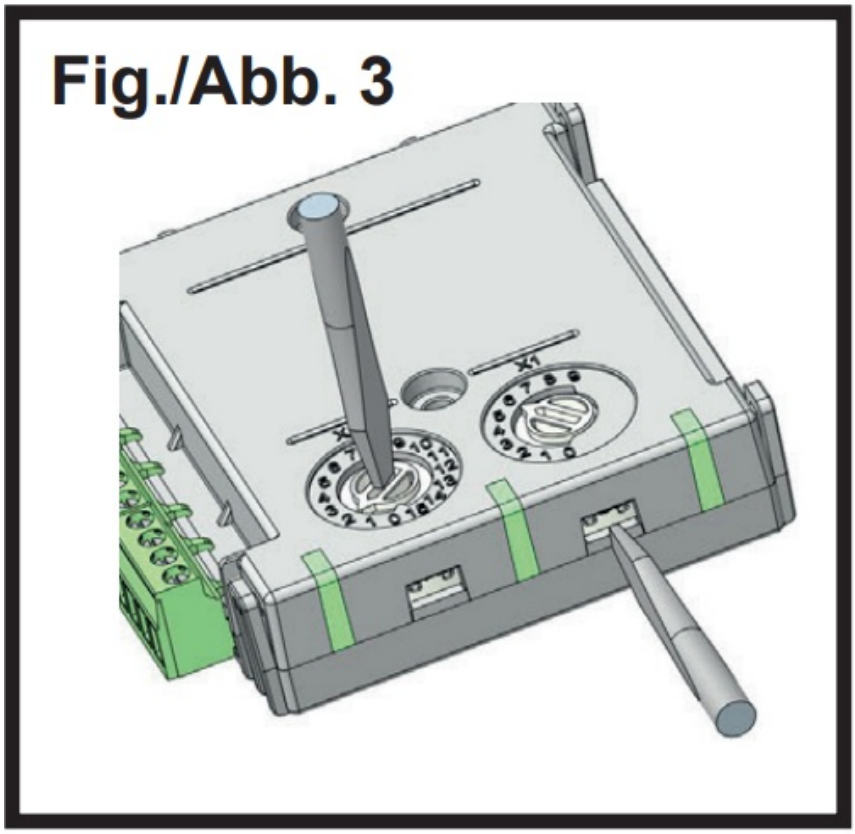
1:2 DIN





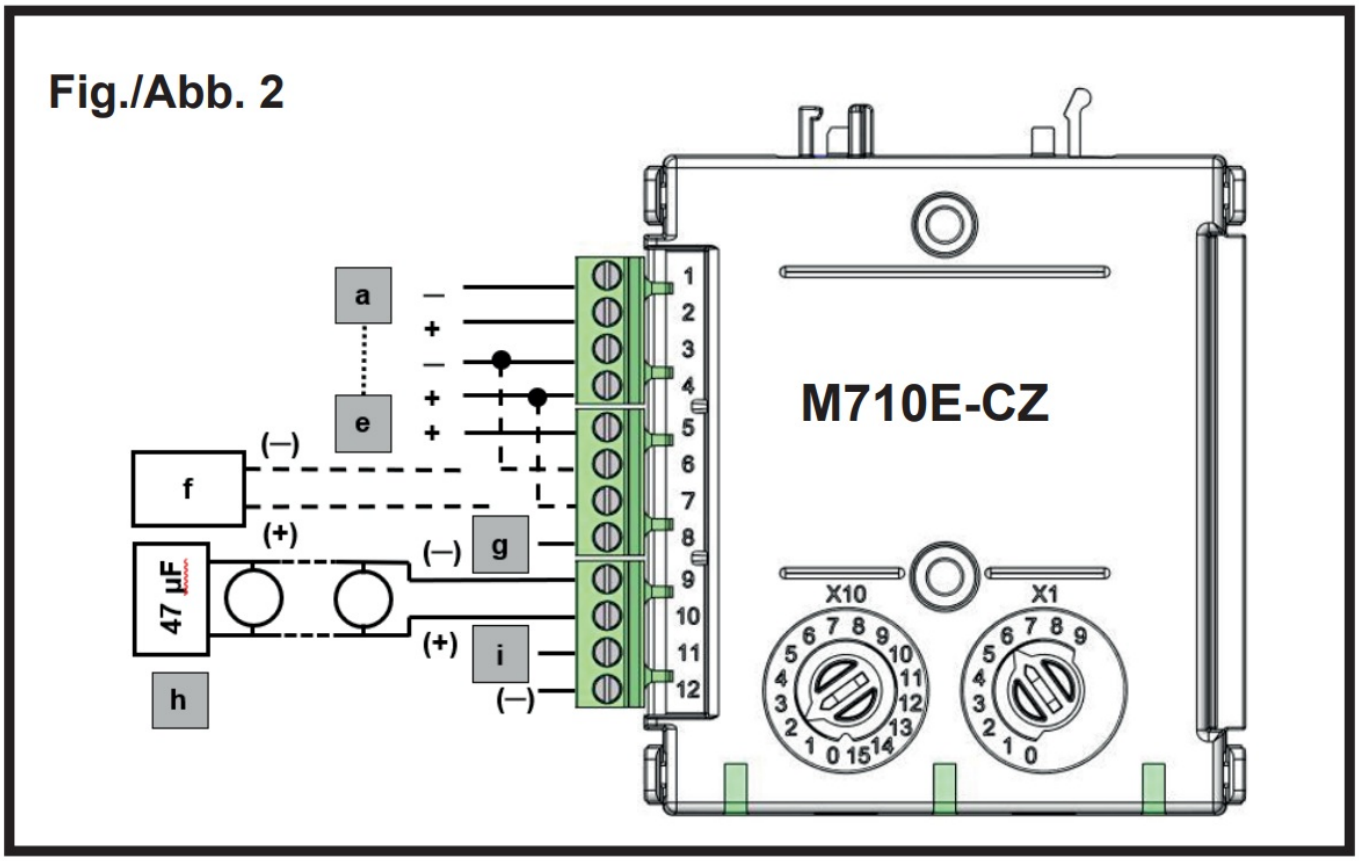
CAUTION
Disconnect loop power before installing modules or sensors.

The module address is selected by means of rotary decade address switches **(see Figure 3)**. A screwdriver should be used to rotate the wheels to select the desired address, either from the front or the top of the module.
Note: The number of addresses available will be dependent on panel capability, check the panel documentation for information on this.



Short Circuit Isolators

All M700 series modules are provided with short circuit monitoring and isolators on the intelligent loop. If required the isolators may be wired out of the loop to facilitate the use of the modules on high current loaded loops, for example if sounders are used. To achieve this, the loop out positive should be wired to terminal 5 rather than terminal 2. **See Figure 2** for details.



CAUTION
Electrostatic Sensitive Device Observe precautions when handling and making connections

M710E-CZ Wiring

The M710E-CZ can be wired so as to power the conventional zone either from an external supply, or directly from the communications loop provided it can supply sufficient current. When using an external power supply, the conventional zone is fully isolated from the communications loop.
If the conventional zone is to be powered from the loop, it is necessary to connect the communication line to the zone power supply terminals in addition to the loop inputs.
Note that if a short circuit occurs on the communications loop on the side powering the conventional zone, it will be reported as a conventional zone loss of power supply fault to the control panel, via the non-isolated leg of the loop.
Wire as follows **(see Figure 2)**:
a: T1 Loop Output -. b: T2 Loop Output +. c: T3 Loop Input -. d: T4 Loop Input +
e: T5 Loop Output +. If short circuit isolation is not required, loop output+ should be wired to terminal 5 and not 2. Terminal 5 is internally connected to terminal 4.
f: If the conventional zone is to be powered from the communications loop, then the loop should be connected both to the loop input (terminals 3 and 4) and to the conventional zone supply (terminals 6 and 7).
If an external power supply is to be used, it should be connected to the conventional zone supply (Terminals 6 and 7), and the communications loop input should be connected only to the loop input (Terminals 3 and 4).
g: Fault Monitor: The fault monitor is an external input, which is used to monitor an external contact, for example an external power supply fault such as mains failure.
The fault is signaled by switching the fault terminal to the external power supply negative. Terminal 12 is internally connected to terminal 6.
h: Conventional Fire Detection Zone: The M710E-CZ can monitor most System Sensor manufactured conventional detectors mounted in standard bases or 470 Ohm resistor bases.
The maximum recommended number of conventional devices used with each CZ module is 20 (Series 300 and ECO1000 Series detectors).
i: Reset Output: This terminal may be used to monitor for the conventional zone reset. It switches low during a zone reset.

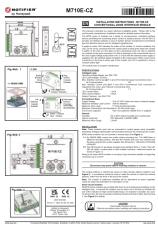
CUSTOMER SUPPORT

UK CA 0905 22 CE 0905 22

DOP-IOD100
EN 54-17: 2005, EN 54-18: 2005
Notified by Honeywell
Pittway Technological S.r.l
Via Cabot 19/3
34147 Trieste, Italy

NOTIFIER®
by Honeywell

Documents / Resources

	NOTIFIER M710E-CZ Single Input Module [pdf] Instruction Manual M710E-CZ Single Input Module, Single Input Module, M710E-CZ Input Module, Input Module, Module, M710E-CZ