

# RESETTABLE MANUAL RELEASE STATION EDU 513-3M



**ICO 9001**

## INSTRUCTION MANUAL

### 1 TECHNICAL DATA

#### 1.1 General

EDU 513-3M Resettable Manual Release Station (hereinafter referred to as the EDU) is specially designed to be used in fire alarm systems and fire extinguishing systems to manually release the agent discharge.

The EDU is to be powered through an alarm loop of such CIE as S2000-4, Signal-20P, S2000-ASPT, Signal-20, Signal-VKP, Signal-VK-4P, Signal-VK-4 rev.05, PPK-2, Signal-42, USPP-01L, Signal-10 fire and intrusion alarm panel or similar providing a voltage up to 30 V within the alarm loop and limiting the current in the loop up to the level of 25 mA.

The protective transparent flip cover of the EDU can be sealed.

The EDU is intended for round-the-clock operation.

#### 1.2 Specification

1) Commuted Voltage	- 30 V max
2) Commuted Current	- 25 mA max
3) Current Consumed in Quiescent Mode	- 50 uA max
4) Ingress Protection Rating	- IP41
5) Operating Temperatures	- Minus 30°C to +55°C
6) Transportation / Storage Temperatures	- Minus 30°C to +55°C
7) Overall Dimensions	- 94 mm × 90 mm × 33 mm
8) Weight	- 0.15 kg max

#### 1.3 Standard Delivery

For an *individual* delivery:

- EDU 513-3M	- 1 pc.;
- Instruction Manual	- 1 pc.;
- Special Key	- 1 pc.;
- Woodscrew	- 2 pcs.;
- Wall Plug 8×30	- 2 pcs.;
- Package	- 1 pc.

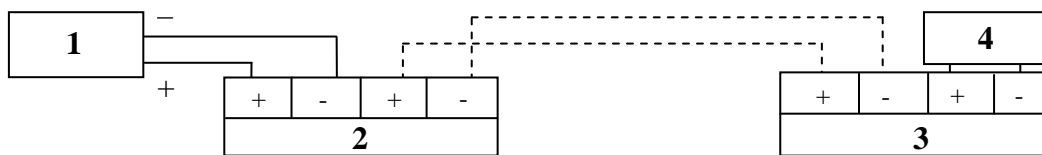
For a *group* delivery:

- EDU 513-3M	- 10 pcs.;
- Instruction Manual	- 1 pc.;
- Special Key	- 10 pcs.;
- Woodscrew	- 20 pcs.;
- Wall Plug 8×30	- 20 pcs.;
- Package	- 10 pcs.;
- Group Package	- 1 pc.

### 2 OPERATION INSTRUCTIONS

#### 2.1 Wiring

Figure 1 shows a typical connection diagram.



- 1 – CIE,
- 2, 3 – EDU,
- 4 – A termination device (resistor, diode etc.)

**Figure 1**

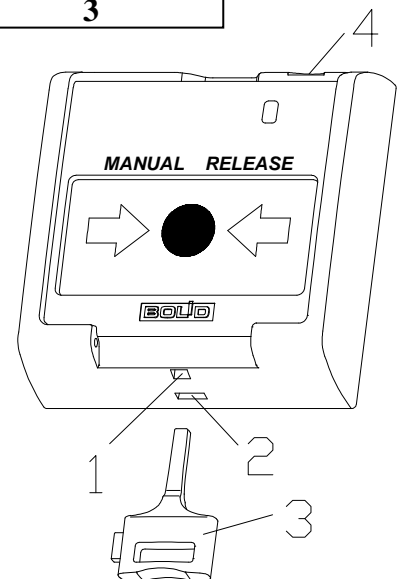
The quiescent mode of the EDU 513-3M is indicated by single flashing of its LED once per 4 seconds.

When the EDU is activated, its LED starts showing solid lighting confirming that the CIE has received the signal from the EDU. In this process the EDU decreases its internal resistance down to 500 Ohm max.

To initiate starting of a fire suppression system, the EDU must be assigned with system outputs and a proper executive program. The rules of configuration of such the links are described in manuals for CIE, S2000M console, and Orion Pro software.

Figure 2 shows the view of the call point (without the protective flip cover):

- 1: The hole to insert the key to reset the activated EDU;
- 2: The hole to insert the key to open the EDU case;
- 3: The special key to reset the activated EDU and to open its case;
- 4: The place to apply a seal.



**Figure 2**

## 2.2 Mounting

The EDU is to be mounted using the two screws provided to a flat vertical surface in accordance with your applicable local standards, codes, regulations, and ordinances.

The wires which pass under the EDU should not be clamped by the EDU case.

Before mounting we recommend you to test operability of the manual release station. Before testing, please disconnect executive outputs of all system devices and modules that can release an extinguishing agent or activate light and sound alarms. Notify the proper authorities that the system is undergoing maintenance.

To test the EDU, connect it to the CIE in accordance with Figure 1 and the instructions from the CIE User's Manual. Then, power up the CIE and activate the EDU by pressing the black marking. The EDU shall enter the Manual Release Station Activation mode, the EDU LED showing solid light. Finally, reset the EDU to the quiescent mode by inserting the Special Key. Ensure the EDU LED flashes once per 4 s.

Disconnect the EDU from the CIE. Attach the EDU to a selected place and connect it into the alarm loop of the CIE. Repeat testing operability of the EDU as described above at least three times. After testing ensure the EDU is ready for normal operation. Then restore operability of all the system components disconnected before testing and notify the proper authorities that the system is back in operation.

Test the operability of the manual release station at least once per three months.

All the equipment used in testing must be known functioning.



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