



CONVENTIONAL LINE-MONITORING MODULE

Type **FD 7201S**

Instruction Manual 01-7201S-11-05



GENERAL DESCRIPTION

Conventional line-monitoring module type 7201S is designed to connect up to 32 conventional fire detectors to an addressable fire alarm control system type IFS7000.

Fire control panel IFS7002 is able to exchange data with the module through a specialized communication protocol UniTALK, using its signal loop. The module is power supplied via the power loop and the signal loop, simultaneously.

The conventional line-monitoring module FD7201S has two built-in short circuit isolators – one for the power loop and one for the signal loop.

The unit comprises a printed circuit board (fig.1 pos.2) and a frame (fig.1 pos.4) placed in a plastic body (fig.1 pos.1). Terminals for connection to the signal loop **SL** (fig.2 pos.1), power loop **PL** (fig.2 pos.3) and for conventional detectors line **CL** (fig.2 pos.2) are provided on the printed circuit board. The module is completed with a terminating component **EOL-2** having a red **R** and a black **B** leads (fig.2 pos.4) that shall terminate the conventional fire alarm line.

Both LEDs (fig.1 pos.6) situated on the body of the module provide information for the following:

Duty mode - both LEDs flash every 16 seconds;

Activated short circuit isolator for the signal and/or power loop – the red LED is extinguished; the yellow LED flashes repeatedly every 1 sec;

Fire detector in the conventional line in Fire condition – the red LED produces continuous light, the yellow LED is extinguished;

Removed fire detector in the conventional line - the red LED is extinguished; the yellow LED produces double flashing light, repeatedly every 1 sec;

Short circuit or break in the conventional line - the red LED is extinguished; the yellow LED produces continuous light.

TECHNICAL DATA

Supply voltage:

- signal loop (15-30)V DC
- power supply loop (12-34)V DC

Current in Duty mode:

- signal loop 300 μ A at 24 VDC
- power supply loop (2-6) mA

Current in Fire condition:

- signal loop 3 mA at 24 VDC
- power supply loop (10-50) mA

Voltage of the conventional fire alarm line

(12-34)V DC

Current of the conventional line when registered:

- Break in a line (0-2 mA ,
- Duty mode (2-10) mA
- Fire condition (10-50) mA
- Short circuit higher than 50 mA

Maximum cross-section of the connecting wires

2,5 mm²

Type of the connecting wires

- signal loop two-wire, shielded
- power supply loop two-wire
- conventional fire alarm line two-wire

Degree of protection

IP 50

Operational temperature range

minus 10°C - plus 70°C

Relative humidity resistance

(93 \pm 3)% at 40°C

Dimensions

114x79x58 mm

Weight

0,200 kg

INSTALLATION

To install the module please follow the sequence:

1. Remove the cover (fig.1 pos.3) by unscrewing the fixings (fig.1 pos.7).
2. Remove the frame (fig.1 pos.4) from the base by unscrewing the fixing (fig.1 pos.5).
3. Puncture the installation holes and the cable entries on the bottom of the base, observing the markings.
4. Fix the base at the desired point of the protected area using appropriate fixings. If necessary, feed the cables to the inside part of the body prior installation.
5. Fix the frame with the printed circuit board to the base using the fixings (fig.1 pos.5).
6. Feed the connection wires to the conventional line-monitoring module and plant the terminating component on the base of the last fire detector in the conventional line, according to the electrical connection diagram, fig. 3

Note: We recommend you to install diodes on the bases of all conventional fire detectors. Otherwise in case of a removed conventional detector the module will indicate break in the conventional line

TESTING THE CONVENTIONAL LINE-MONITORING MODULE

Test the module with conventional detectors connected, and after connecting the module to fire control panel type IFS7002 as a part of the site's fire alarm system.

1. Set the control panel to Duty mode. The conventional line-monitoring module shall enter Duty mode.
2. Set twice any detector connected to the module's conventional line, to Fire condition. The module shall indicate the condition accordingly, as described above.
3. Send a reset command from the fire control panel IFS7002 to the conventional line-monitoring module FD7201S. The module shall restore the Duty Mode.

SECRIVE SCHEDULE

1. Inspection for visible physical damage - weekly
2. Satisfactory operation test in real conditions - monthly

WARRANTY

The warranty period is 36 months from the date of purchase. The manufacturer guarantees the normal operation of the module providing that the requirements set herein have been observed. The manufacturer does not bear warranty liabilities for damages caused through accidental mechanical damage, misuse, adaptation or modification after production. The manufacturer bears warranty liabilities for damages in the module caused through manufacturer's fault only.

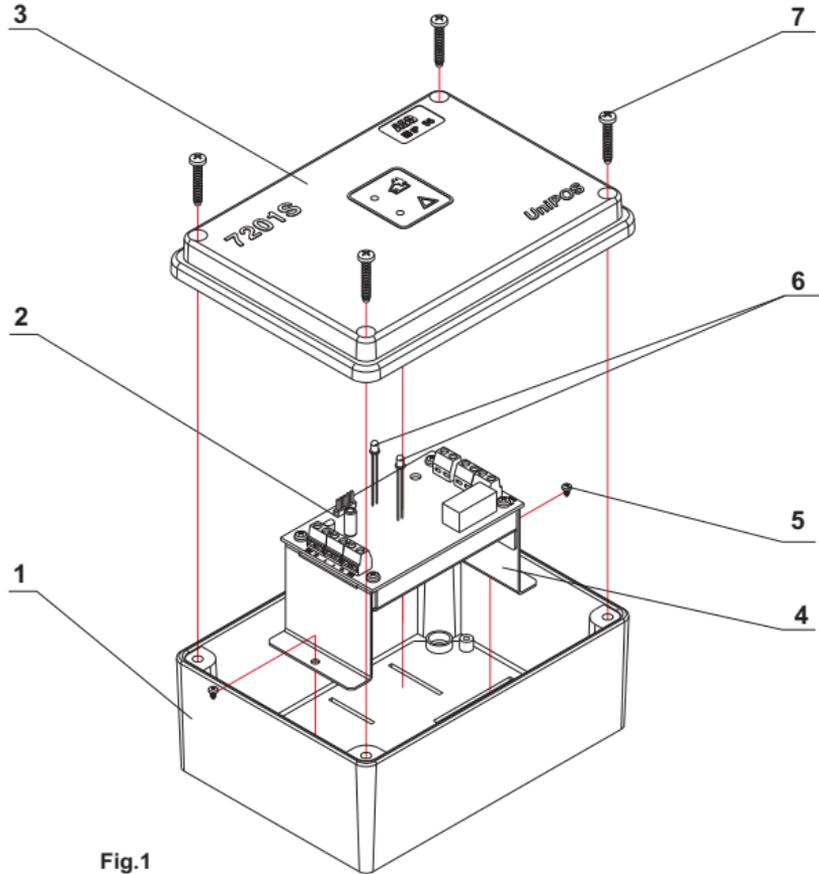


Fig.1

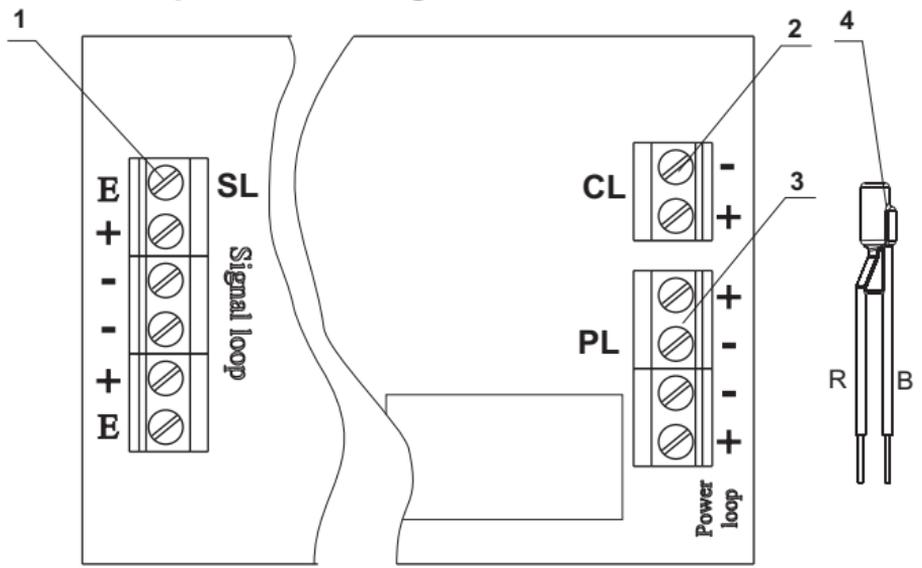


Fig.2

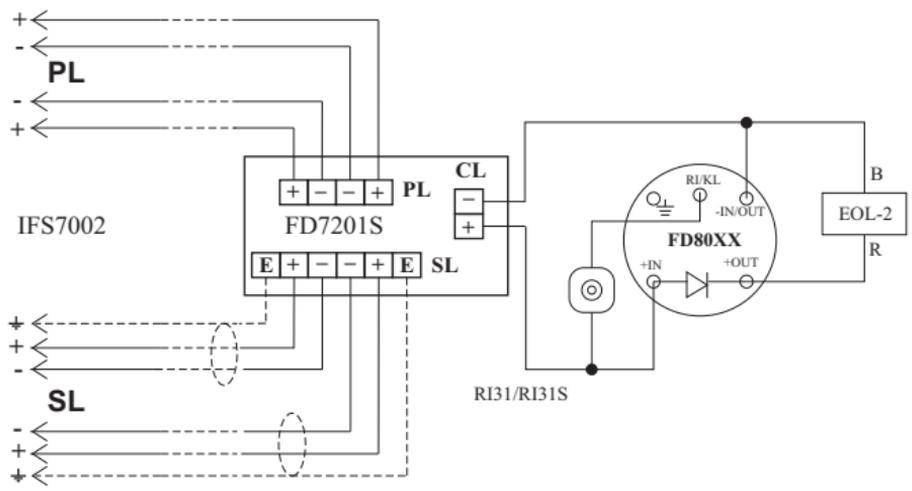


Fig.3