

# RF CARRIER DETECTOR 'D-JAM'

## Installation manual.

### 1. FUNDAMENTALS OF 'D-JAM' OPERATION.

When D-JAM detects the level of RF radiation is higher then preset threshold it outputs negative signal (short to "ground"). The output is shortened to "ground" as long as RF radiation detected. If radiation disappears, output signal is restored with 4 second delay.

### 2. FEATURES OF 'D-JAM'.

- ✓ sensitivity adjustment;
- ✓ non-volatile sensitivity level memory (EEPROM);
- ✓ low consumption current in RF detection state;
- ✓ sensor's output protection against accidental short connection to 12 V;
- ✓ small overall dimensions (53x43x14.5mm).



Fig. 1. RF carrier detector 'D-JAM'.

### 3. TECHNICAL SPECIFICATIONS:

|  |                 |
|--|-----------------|
| ✓ operating temperature .....                          | - 30°C / +70°C; |
| ✓ rated supply voltage .....                           | 7 - 16 V DC;    |
| ✓ average current consumption in detection state ..... | no more 5 mA;   |
| ✓ average current consumption in triggered state ..... | no more 25 mA;  |
| ✓ output – open collector, max current .....           | 12 mA;          |
| ✓ range of RF carrier detection .....                  | 400 – 1800 MHz  |
| ✓ number of sensitivity steps .....                    | 5.              |

### 4. 'D-JAM' INSTALLATION.

To ensure maximum sensitivity detector must be installed at least 10 centimetres away from metal parts.

### 5. 'D-JAM' ADJUSTMENT.

Shortly press (less than 1 second) sensor's button to get information about current sensitivity. LED will flash 1...5 short flashes in green colour, the number of flashes corresponds to RF sensitivity level. Lowest sensitivity corresponds to 1 flash, highest sensitivity corresponds to 5 flashes. For sensitivity set-up press the button and hold down. LED will start flash in red colour. After the flash with number corresponding to necessary sensitivity level release the button.

### 6. 'D-JAM' WIRING DIAGRAM.

