

Installation Guide

1 Product Overview

1.1 Flood sensor «DZ-12V» (hereinafter, the Sensor) is intended for detecting water leaks from water pipelines used for water supply and heating of premises and generating flood messages by increasing current consumption in the alarm loop (hereinafter, the AL).

1.2 The Sensor is intended for operation as a component of any control panel (hereinafter, CP), providing AL power supply within 8...30 V range.

1.3 The Sensor is intended for continuous round-the-clock operation in heated and unheated premises.

1.4 The Sensor is resistant to the impact of:

- vibration with an amplitude up to 0,981 m/c² within 10-55 Hz frequency range;
- single blows with a hammer made of aluminum alloy with impact energy up to (1,9 ± 0,1) J.

1.5 Industrial radio interference created by the Sensor does not exceed the norms for technical facilities used in residential and commercial areas and in low energy consumption industrial areas.

2 Specifications

Table 1

Parameter	Value
Power supply, V DC	8–30
Maximum current consumed under «Norm» message generation, mA, not more	30
Minimum current consumed in the «Flood» message generation mode, mA, not less	3,3
Minimum thickness of a sheet of liquid for generating a «Flood» message, mm, not less	1
Ambient class	Boreal Climate *
Operating temperature, °C	from minus 20 up to +50
Permissible relative humidity at 25 °C	Up to 100 %
IP rating	IP67
Dimensions, mm, max	65 x 22 x 16
Weight, g, max	50

* background temperature 15 – 35 °C, relative humidity 25 – 75 %, air-pressure 86 – 106 kPa

3 Scope of Delivery

Table 2

Name and Designation	Qty
Flood Sensor «DZ-12V»	1 pc.
Flood Sensor «DZ-3V». Installation Guide	1 copy

4 Design of the Sensor

The Sensor is designed in a waterproof case. The case design permits complete immersion of the Sensor into water (IP rating IP67). To ensure the Sensor hooking up to CP, 1,5 meter alarm loop wires are hermetically plugged in the Sensor. Sensing contacts located on the case of the Sensor touch water when the level of water rises at least 1 mm.

5 Installation and Mounting of the Sensor

It is advisable to install the Sensor on horizontal surfaces in the places where liquid leaks are most probable: on the floor under water supply, sewerage or heating pipes. Fastening holes make it possible to fasten the Sensor to horizontal or vertical surfaces. The sensing contacts of the Sensor must be directed downwards. The CP Sensor connection pattern is shown in Figure 1.

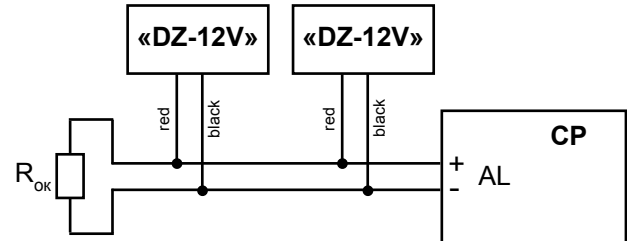


Figure 1

6 Storage and Transportation

The Sensor in transportation package may be shipped by any means of transportation in closed vehicles (railroad waggons, trucks, heated compartments of airplanes, vessel holds, etc.).

After transportation under conditions different from operation conditions, the Sensor will be ready for operation in maximum 6 hours.

Storage of the Sensor in transportation package must meet the following conditions: storage premises must not contain any current-conducting dust, acid and alkali fumes and corrosive gases.

7 Manufacturer's Guarantees

«RIELTA» JSC guarantees compliance of the Sensor to the requirements of Technical Specifications for 63 months after the day of manufacture provided the transportation, storage, mounting and operation conditions are observed.

The guaranteed useful life is 60 months since the day of putting into operation within the limits of the guaranteed shelf life.

Should the detector be found non-conforming to the requirements of specifications, or should the detector break down during the guarantee period, the Sensor should be returned to the manufacturer with the label for free replacement.