

**Product name:**  
**IR-Sensor**

**Description:**

The IR-Sensor is the element to control the water supply at lavatories and detects the entry and exit of anyone from a defined area by supervising the change of infrared emission.

The reliability of the normal function of the IR-Sensor is secured up to 28° C. If the IR-Sensor notices someone inside the bathroom, the sensor sends a discrete signal immediately to the Water System Controller (WSC) to open the bathroom supply valves

Otherwise, if the IR-Sensor detects no-one in the bathroom the sensor resets the discrete signal. The WSC should close the bathroom supply valves depending on the signal of the IR-Sensor.

**Operating Conditions**

The IR-Sensor has been designed to be used within aircraft cabin and to meet RTCA DO-160D Operating Environment:

Temperature:  $-15^{\circ}\text{C} \leq T_{\text{ops}} \leq 70^{\circ}\text{C}$

Altitude Pressure: 15.000 ft

Defined Area: diameter of 2m, if IR-Sensor is installed at a height of 2.5m.

The IR-Sensor must be mounted according to mounting instructions issued by E.I.S. Electronics.

**List of Equipment:**

Name	Part-No.
IR-Sensor	9632200-3001 Mod.B

**General Layout:**

Aluminium Housing with two interfaces for power supply and discrete signal output.

The housing is designed in the way that only the lens with a diameter of max. 50 mm is visible from the bottom part of the ceiling. Four drillings in the housing bottom plate enable mounting of the IR-Sensor to the ceiling.

**Power Supply:**

Voltage:	28 VDC
Power consumption:	200 mA $I_{\text{max}}$

**Dimensions:**

Length, width, height: 139.7 x 64 x 57.4 mm

**Weight:**

Approx. 0.3 kg

**Material:**

Housing:	Aluminium and Plastic
PCB:	FR4

