# Swegon

# Installation Instructions for the TBLZ-1-56 Presence Detector GOLD/COMPACT

# 1. General

The TBLZ-1-56 is a presence detector of double-element type. The sensor is enclosed in a white sensor housing. The lens has a dense, 110° wide detection coverage area for the reliable detection of continuous presence. The mounting bracket can be used for mounting the sensor on the ceiling or on a wall. The time delays can be set by fitting jumpers as appropriate.

The presence detector is equipped with a temperature monitor. The temperature monitor is however not used in Swegon's application. To disable the temperature monitor, remove the jumpers from the temperature setting contacts, see below.

# Description



Red LED (steady glow) indicates whether the detector is activated Red LED (flashing) indicates whether any time-delay jumper has been removed = outside the working range.

#### *To Set the Switch-on and Switch-off Time Delays*

Jumpers are provided on the sensor circuit card for setting the switch-on and switch-off time delays.



Factory setting:

Switch-on time delay = 10 seconds. Switch-off time delay = 5 seconds.

**Important!** Always isolate the voltage supply to the sensor before changing the switch-on and switch-off time delays.

## Functional Diagram





# 2. Installation

#### Location

Install the detector where it can detect a person whose probable direction of movement will be across the zones. It will be easiest for the sensor to detect movements in this direction.

Avoid conceivable sources of false alarms, such as: direct sunlight, heat-emitting objects in the detector's field of vision (heating elements, etc.), moving objects such as fans or pets in the detector's field of vision.

Avoid objects that can block the coverage area, such as large pieces of furniture, curtains, etc.

#### Installation

 Back off the locking screw and lift off the front of the sensor housing. Remove the circuit card from the back.
Choose wall, ceiling or corner mounting. Then tap out the appropriate "knockouts" for the screw holes and install the back.

3. Connect the cables and refit the circuit card.

4. Carefully seal all the cable holes to prevent insects from entering the sensor housing.

5. Refit and secure the front of the housing. Then carry out a walk-test.

6. Important! Always isolate the voltage supply to the sensor before changing the switch-on and switch-off time delays.





#### Walk-test

First set both the time delay jumper leads in position A. Switch on the voltage and wait 45 seconds for the sensor to warm up. Then test the entire detection area by walking slowly through all the sensing zones in the area being monitored. Keep an eye on the walk-test LED as you move. The LED should light up every time you change zones. Pause for about two seconds to let the unit stabilize between each test.

#### **Detection Area**



Number of detection zone 15 m = 8 zones 8 m = 8 zones 2.5 m = 4 zones Total = 20 zones

#### Vertial Adjustment

If the area-sensing performance of the sensor is not satisfactory, you can move the sensor upward or downward on its mount to adjust the sensor's vertical sensing area.

# Swegon

# 3. Data

Designation:	PIR-TFT-550-B
Supply voltage	24V AC/DC ± 2V AC/DC
Operating current	7 mA
Alarm output	Changeover, 24 V AC/DC,
	5 A/NO, 3A/NC
Radio frequency	
interference	20V/m (10-1000 MHz)
Permissible ambient tem	perature -20°C to +50°C
Installation height above	floor 1,8-3.6 m
Colour	White
Enclosure rating	IP20
Humidity	95% RH
Switch-off time delay	5 sec. to 30 min.

# 4. Electrical Connections

The electrical connections are to be wired by a qualified electrician in accordance with local electrical safety regulations. If two or more sensors are used for one air handling unit, they must be connected in parallel.

Important! Disconnect the circuit card from the sensor before connecting cables to it.

## GOLD RX/PX/CX/SD, version E/F



Dimensions

#### Presence detector

Switch-on time delay



0 to 10 min.

Mounting bracket





#### \* Applicable to size 100/120 GOLD units only:

If the total load on Terminals 31-32 is higher than 16 VA, use Terminals 201 (G) and 202 (G0). Terminals 201-202 can be loaded with a total of max, 48 VA.

## GOLD LP/COMPACT



\* The External High-speed Function must be selected for the input, see the Installation and Maintenance Instructions.

