

## Ice and Snow Detector 1873-ESM, Single Unit

### Quick Start Guide



The Ice and Snow Detector 1873 is a single-channel device that can be used for all applications in the field of ice and snow detection.

It can be connected to the following sensors:

- 3354 (rooftops, gutter heating)
- 3356, 3355 (areas, slab heating)

The device is configured with the factory setting (see *Installation and Adjustment Instructions* from page 19 or from page 40 depending on the documentation).

For a quick start, only the language and the sensor have to be set when the system is switched on for the first time. The application must be set to "Single Unit". We also recommend setting the moisture threshold above the dry value specified on the sensor, determined alternatively via a dry test measurement.

### Required settings



Confirm "Deutsch" (German) with *Save* or change language with "+" and then confirm with *Save*.

### Menu → Installer → Startup →

During initial startup, all parameters must be set under the menu item mentioned above. These are:

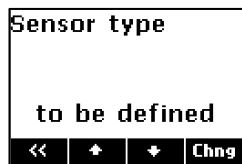
#### Application



The application must be set to "Single Unit". For information about the applications "System" and "Multi Channel" refer to complete 1873/75-ESM documentation.

#### Sensor type

The factory setting for the sensor type is "to be defined". Select the sensor type according to the connected sensor.



Click *Chng*, select sensor with "+" and confirm with *Save*.

## Recommended settings

### Moisture threshold

Menu → Installer → Config. modules → Moisture threshold

It should be checked whether the factory-set moisture threshold of 5.0 matches the sensor used and its environment.

1. Add 1.0 to 2.0 to the dry value specified on the sensor depending on the desired sensitivity and set this value as the moisture threshold.



Click *Chng*, select sensor with "+" or "-" and confirm with *Save*.

If there is no dry value on the sensor, it can be determined with the help of a test measurement:

2. The sensor must be dry.
3. Start a test measurement.

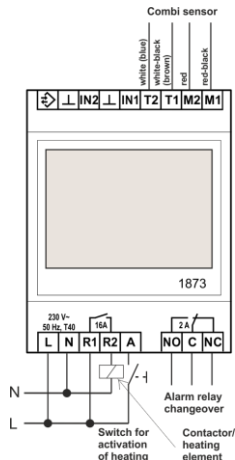
Service → ISD channel → Start moisture measurement?

Click *Chng*, change to "Yes" with "+" and confirm with *Save*. (Automatically jumps to "No" after the measurement.)

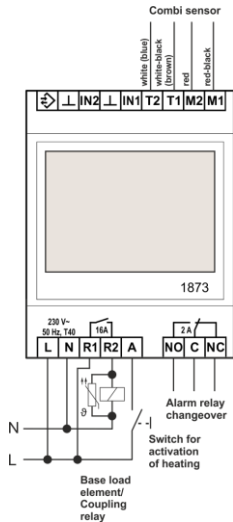
The measured value is indicated on the idle display after 2-3 minutes.

4. Change the value as described under 1, if necessary.

### Connection diagram 1873-ESM



## Connection diagram 1873-ESM with coupling relay/base load element



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