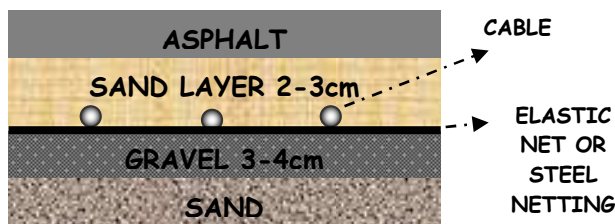


OUTDOOR SNOWMELTING

- The cable insulation and resistance should be measured before laying the paving stones..

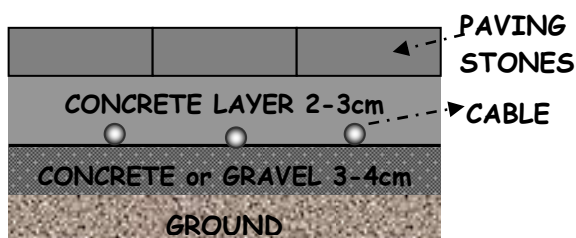


INSTALLATION BELOW ASPHALT



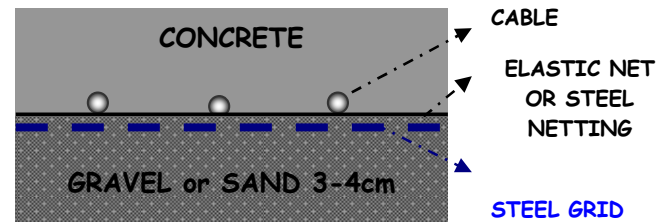
- Measure the cable insulation and resistance before and after applying the asphalt layer.
- Before laying the asphalt layer, to protect the cable, a thin layer of concrete should be laid on the entire surface to be covered by the cable.
- The asphalt must be 5 cm minimum thick from the upper part of the cable (when the entire cable has been covered).
- The concrete should be laid at a temperature of 130-140°C.

INSTALLATION BELOW PAVING STONES



- The installation area must be flat and free of any troublesome element (Stones or other obstacles).
- Adequate distance should be used between each cable loop.

INSTALLATION BELOW CONCRETE

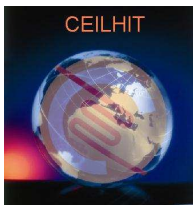


- Cables should be tightened on the metallic grid so that they cannot move when the concrete is laid down.
- The concrete should perfectly recover the cable, avoiding that any air is left.
- The concrete should not carry any splinter that may damage the cable.
- The cable insulation and resistance should be measured before and after the concrete is laid down.

!!! IMPORTANT !!!

Construction joints should not be filled by the heating elements..

Cables should never be installed directly over an insulation layer.



OUTDOOR SNOWMELTING

REGULATION SYSTEM

The ground sensor measures the ground temperature and moisture, while the external sensor measures the air temperature. Thereby a fast change in temperature can be detected and ice formation can be avoided.



EXTERNAL SENSOR



OUTDOOR GROUND SENSOR

The system is triggered only if the outdoor temperature is lower than the set up temperature and if snow or ice is detected by the outdoor floor sensor.

CONTROLLER CHARACTERISTICS	
Protection class	II
Operating voltage	230V AC $\pm 10\%$
Operating frequency	50 a 60Hz
Differential Stop/Run	0,3°C
Output relays	10A, 10A, 16A
Ambient temperature	0 a 50°C
Junction box	IP20 / IP21
Weight	495g
Dimensions	90 x 156 x 45mm



CONTROLLER

SENSOR CHARACTERISTICS		
	GROUND	EXTERNAL
Operating Temperature	-20 / 70°C	-20 / 70°C
Dimensions	105x30x13mm	86x45x35mm
Class	IP68	IP54

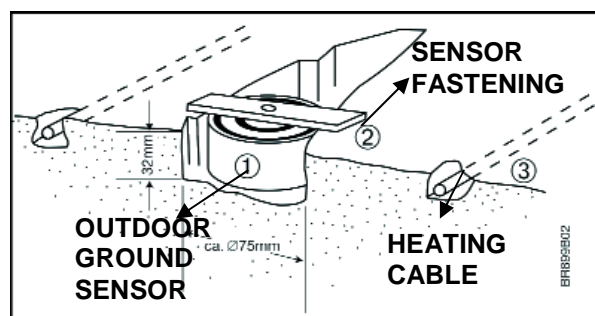
MOUNTING

Controller:

To be fixed on the wall.

Outdoor ground sensor:

This sensor is designed to be embedded within the outdoor ground lining.



The sensor must be fixed on a concrete base and its upper part must appear on the surface. In the case of asphalt lining, a concrete base should be built for the sensor installation.

The sensor cable should be installed according to the applicable standard, i.e. within a pipe.

External sensor:

Mount the sensor below the roof on the north face of the building.

