

Moisture and temperature sensor for roof and gutter de-icing

PRODUCT OVERVIEW



Rod-shaped sensor E650C-R for combined measurement of temperature and moisture in gutters and adjacent areas, such as flat roofs and downpipes to be used with Elexant 650c-Modbus. Robust sensor made of brass, fully encapsulated. Extremely compact design with axial cable outlet and threaded bolt for fixing in position.

Mounting bracket for sensor E650C-R can be used with sensor height adjustment above the mounting surface. The mounting bracket can be matched to the mounting location by bending and then attached by gluing or soldering.

Two material versions of the bracket are available for compatible material combinations in gutter and flat roof applications.

PRODUCT SPECIFICATIONS

Dimensions (in mm)

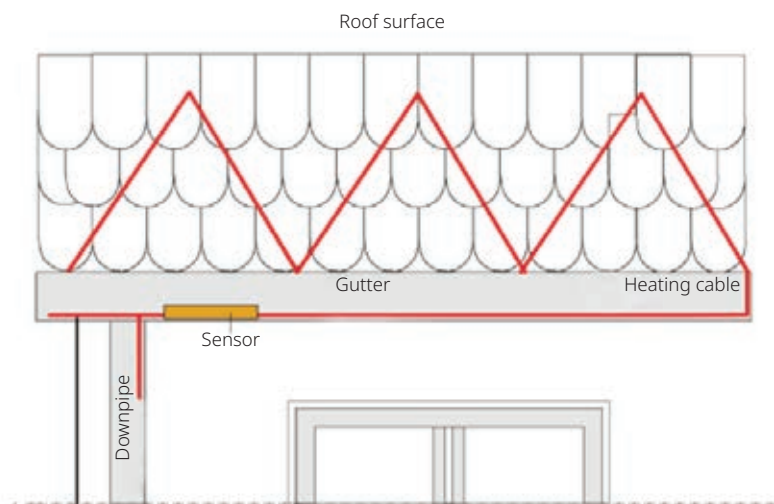
E650C-R: Ø 12 mm (without support rings), L 105 mm, M6 thread (including plastic nut and plain washers)

E650C-R-BRACKET-ZN (Zinc) / E650C-R-BRACKET-CU (Copper): W 80 mm, L 132 mm

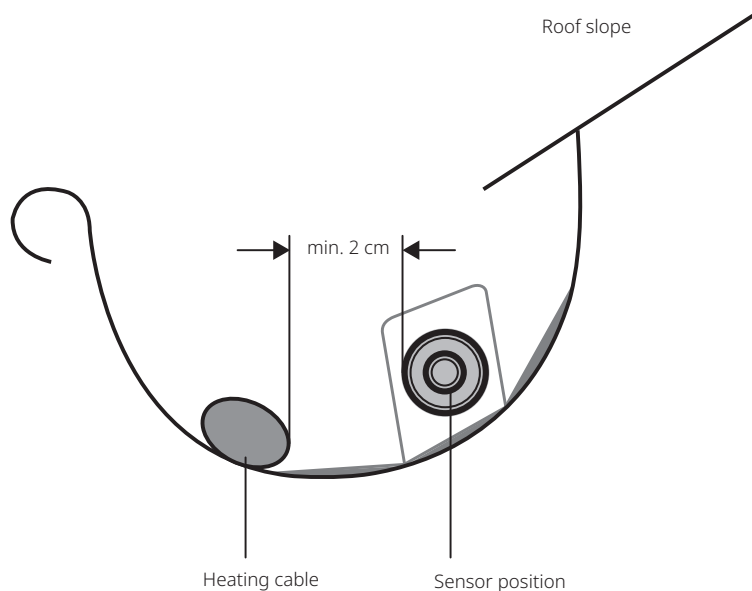
E650C-R	
Cable connection	Axial
Connection cable	4 x 0.5 mm ² length 6 m
Temperature range	-30°C to 80°C
Temperature range for moisture measurement	-20°C to 30°C

Sensor installation

The sensor must be installed in such a way that melting water runs off across the sensor. It should be located as close as possible to the downpipe of the gutter. A mounting bracket made of zinc is included in the package of the E650C-R sensor. It is also available as a spare part accessory to be ordered separately. There is also a separate variant of the bracket made of copper available as a spare part accessory (to be ordered separately, not included in the package of the E650C-R sensor). The mounting bracket enables better fixing and positioning of the sensor. Note for material compatibility: If the mounting bracket is to be used in a copper gutter, the variant E650C-R-BRACKET-CU made of copper is available for this case. Only with gutters made of plastic there are no material compatibility restrictions and E650C-R-BRACKET-ZN can be used. When installing the sensor in the bracket, first bend the rear part of the bracket to fit the rear part of the sensor onto it, then unscrew the plastic screw and remove one of the plastic washers and bend the front part of the bracket, then insert the thread into the hole created by bending the bracket, put the plastic washer back on and screw in the screw. In this way, the front of the bent bracket should be between the two plastic washers. The plastic washers, screw and sensor support rings are included in the kit and can be found already mounted on the sensor (they are all UV resistant). Next, attach the mounting bracket to a gutter or flat roof. The mounting bracket can be attached to gutters or flat roofs using special mounting adhesives made from roofing materials (you can also use our GM-SEAL-02 adhesive for this purpose).



Sensor installation (side view).



Sensor installation (gutter view).

Sensor extension

If necessary, the sensor cable may be extended. Maximum extension length for E650C-R sensor is 140 meters (with 1 mm² wire). Maximum extension lengths for E650C-G sensor are 110 meters (with 1 mm² wire) and 130 meters (with 1.5 mm² wire). Provided total values are including already the length of the cable that is attached to the sensor in the box.

ORDERING INFORMATION

Product Name	Product description	Reference Number	EAN
E650C-R	Moisture and temperature sensor for roof and gutter de-icing, 6 m, with zinc mounting bracket	1244-022795	5414506024678
E650C-R-BRACKET-ZN	Spare mounting bracket for roof and gutter de-icing sensor, zinc	1244-022798	5414506024708
E650C-R-BRACKET-CU	Spare mounting bracket for roof and gutter de-icing sensor, copper	1244-022799	5414506024715
Elexant 650c-Modbus	Controller for surface snow melting and roof and gutter applications with Modbus	1244-022835	5414506025002
SM-TF130-DI	External module for panel alarm digital input	1244-022836	5414506025019
GM-SEAL-02	Adhesive for roof and gutter brackets, polyurethane glue, 300 ml bottle	1244-012310	5414506014440

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