

At a glance

Applications



Roof surfaces, gutters and downpipes



Frost protection

- › Building technology
- › Gutters
- › Downpipes
- › Roof surfaces
- › Snow load

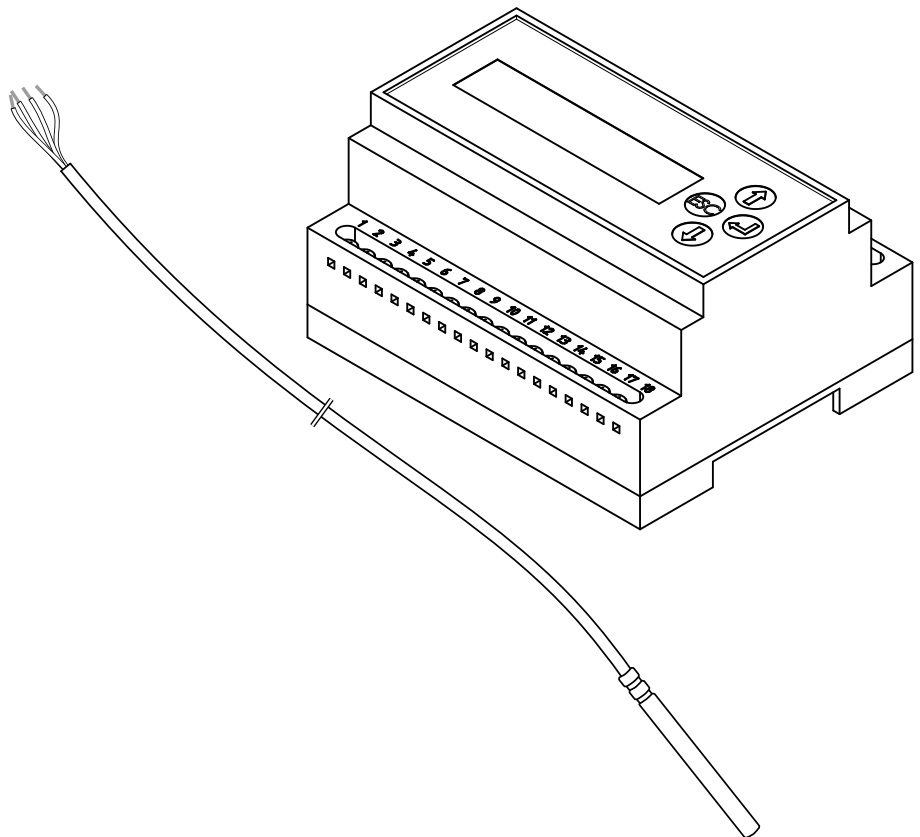
Advantages

- › Energy-saving
- › Reliable & economical
- › Easy installation & operation

Approvals

ISD-1

Ice and Snow Detector for Roof



Electrical gutter and roof surface heating protects against winter damage that can occur due to an excessive load of snow and formation of ice. The water can flow out and there is no way for ice to form.

For economic control, use of the electronic ice and snow detector ISD-1 is normally recommended. Measuring the humidity and temperature in the ice and snow detector makes it possible to implement energy-saving operation. In this way the heating is only turned on briefly if the frost limit is exceeded with moisture present at the same time.

The microprocessor-controlled ISD-1 has an illuminated LCD display. Setpoint values and actual values for temperature, moisture and the reheating time can be accessed and adjusted.

Checklist

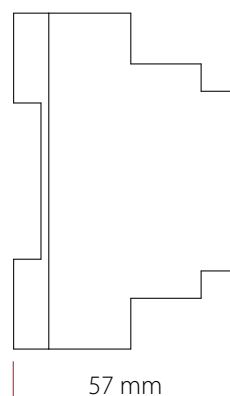
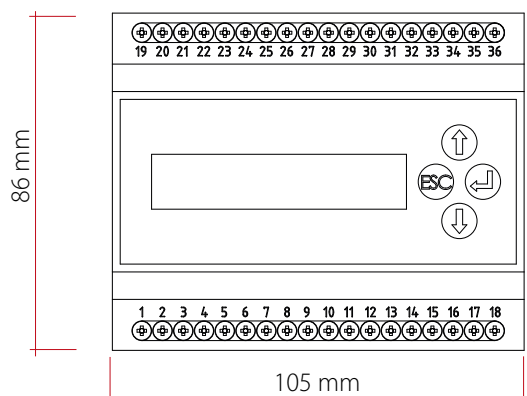
Temperature sensors

ISD-STH 1	Moisture and temperature sensor, 5.0 m AL	TBC0001
ISD-STH 2	Moisture and temperature sensor, 10.0 m AL	TBC0002
ISD-STH 3	Moisture and temperature sensor, 20.0 m AL	TBC0003

Technical Specifications

Operating voltage	230V AC 50/60Hz
Max. power consumption	Max. 3 VA
Ambient temperature	-10°C up to +50°C
Storage temperature	-40°C up to +80°C
Switching capacity Relay 1	Relay N/O contact, 250 V AC/30 V DC, 8A cos φ =1
Switching capacity Relay 2	Relay N/O contact, 250 V AC/30 V DC, 8A cos φ =1
Switching capacity of fault message	Relay changeover contact, 250 V AC/30 V DC, 8A cos φ =1
Setpoint temperature range	0.0 °C to 9.0 °C
Switching hysteresis	0.5 K to 5.0 K
Switching accuracy	± 1K
Tracer connection	4 sensor inputs (parallel)
Sensor voltage	8.5 V DC, max. 50 mA
Conductor cross-section if sensor	0.25 mm ² to 2.5 mm ²
Interface	RS 485
Display	Illuminated, 2 lines, 16 places
Housing material	Polycarbonate, grey
Dimensions	105 x 86 x 57 mm (WxHxD)
Protection	IP 20, protection class II
Mounting	DIN rail TS (6DU)
Weight	approx. 0.4 kg

Dimensions



Ordering Information

Type	Item no.
ISD-1 including moisture sensor ISD-STH 1*	0620623

* **Sensor:** Detailed information on the various sensors can be found in data sheet "ISD-STH & ISD-DEC Ice and Snow Sensors"