

- **overvoltage protection against local lightning strokes and other externally induced voltages**
- **stable housing protected against dripping water**
- **easy to mount**

### Safety advice

Please pay attention to the following safety advice in order to avoid danger and damage to people and property.

Please pay attention to appropriate usage of the product (see pages 1 and 2). Improper use excludes all liability claims.

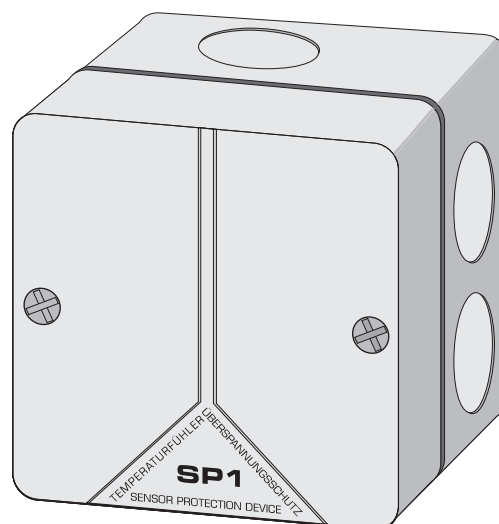
The device is to be operated on safety extra-low voltage (SELV).

Attention should be paid to:

- valid local regulations
- the statutory provisions for prevention of industrial accidents,
- the statutory provisions for environmental protection,
- the Health and Safety at Work Act 1974
- Part P of the Building Regulations 2005
- BS7671 Requirements for electrical installations and relevant safety regulations of DIN, EN, TRGI, TRF and VDE.

Suitably qualified personnel should carry out installation and maintenance.

Errors excepted and subject to technical changes.



### Overvoltage protection

The RESOL overvoltage protection device SP1 should be used in order to protect the susceptible temperature sensors in or at the collector against induced overvoltages.

In the case of local thunderstorms, voltage peaks which could destroy the sensor can be induced in the sensor cable. The protector diodes in the SP1 limit these overvoltages to a value harmless to the sensor.

The best way to protect the sensor is to install this connecting box close to the sensor. Because of the weather conditions, the SP1 is designed as a robust connecting box in a dripping water-protected housing which can be used outdoors. Seven rubber glands for the sensor cables in the side walls of the connecting box allow for an easy installation in each position.

### Order note

RESOL SP1

Article-no.: 180 110 10

### Technical data RESOL SP1

#### Housing:

plastic

#### Protection type:

IP 65

#### Dimensions:

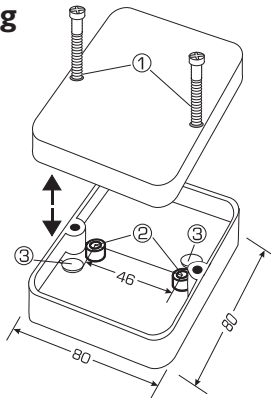
80 x 80 x 53 mm

#### Ambient temperature:

-25 ... +70 °C

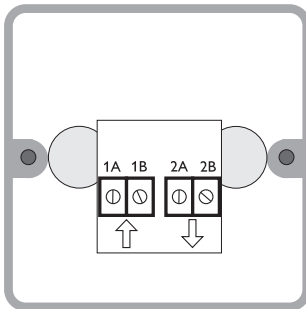


**1. Mounting**



After the screws have been loosened (1), the upper part of the housing can be removed from the connecting box. With the aid of the two holes (2) the lower part of the connecting box has to be fastened to a plane and stable surface. The protective caps (3) have to be removed from the bottom and inserted into the screw holes.

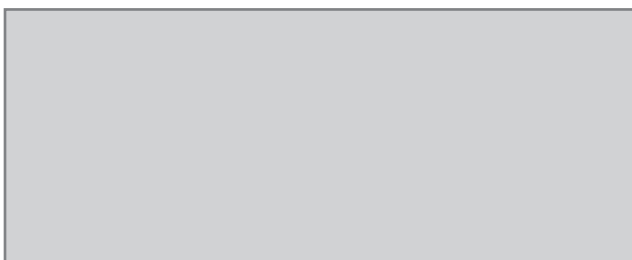
**2. Electrical connection**



Pierce the cable glands with a pointed object. Insert the cables into the holes and pull them slightly back, such that the rubber layer is slightly turned to the outside. Thus the device is protected against moisture. Connect the sensor cable to the terminals 1A and 1B, and the connecting box cable to the terminals 2A and 2B. If polarity has to be considered (this is required for the irradiation sensor CS10!), the cables with the same designation have to be connected to the same designations (1A and 2A as well as 1B and 2B are the two connection paths).

Sensor cables carry safety extra low voltage (SELV) and must not be placed in a gland together with cables carrying 230V. If the connecting box is used outdoors, it is recommended to pierce the condensation water hole at the bottom after the device has been installed.

**Your Distributor:**



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**Important notice:**

We took a lot of care with the texts and drawings of this manual and to the best of our knowledge and consent. As faults can never be excluded, please note: Your own calculations and plans, under consideration of the current standards and DIN-directions should only be basis for your projects. We don't offer a guarantee for the completeness of the drawings and texts of this manual - they only represent some examples. They can only be used at your own risk. No liability is assumed for incorrect, incomplete or false information and the resulting damages.

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**Please note:**

The design and the specifications are to be changed without notice. The illustrations may differ from the original product.