

## Dew-point Alarm types EDA-24 and EDA-230

### Application



mode, the two potential-free relay outputs are activated. The relay outputs can be used to shut off the chilling valve for the chilled panel/chilled beam and to give a signal to an alarm system or BMS system that condensate has generated in this regulation zone. The relay outputs are in the alarm mode in the case of condensate, short-circuited sensor circuit or disconnected sensor circuit.

EDA has a potentiometer for setting the sensitivity of the EDA-S sensor.

The EDA-S sensor is placed on the flow pipe for the chilled panel/beam, following which condensate on the EDA-S sensor will trigger an alarm.

The sensor is attached by means of plastic strips supplied with the EDA-S sensor.

EDA is an electronic dew-point alarm for monitoring chilled panels or chilled beams.

EDA can be used in connection with Danfoss self-actuating climatic regulator FED/FEK.

Via sensor type EDA-S, the electronic dew-point alarm EDA registers whether condensate is appearing on the flow pipe to the chilled panel/chilled beam.

When condensate is registered on the flow pipe to the chilled panel/chilled beam, the electronic dew-point alarm EDA is activated. In the alarm

#### LED indication:

On the front of the electronic dew-point alarm, EDA, there are two LEDs:

- Green LED to show whether a supply voltage has been connected to the product.
- Red LED to show whether there is a dew-point or sensor alarm.

### Ordering and specifications

#### Electronic dew-point alarm

| Type    | Description                                    | Code no.        |
|---------|--|-----------------|
| EDA-24  | Electronic dew-point alarm, 24 V power supply  | <b>088H3001</b> |
| EDA-230 | Electronic dew-point alarm, 230 V power supply | <b>088H3002</b> |
| EDA-S   | Sensor for electronic dew-point alarm          | <b>088H3011</b> |

#### Accessories

| Description  | Code no.        |
|--|-----------------|
| Plastic box for EDA, enclosure IP54, dimensions, mm: H = 130, D = 94, W = 94 | <b>088H3010</b> |

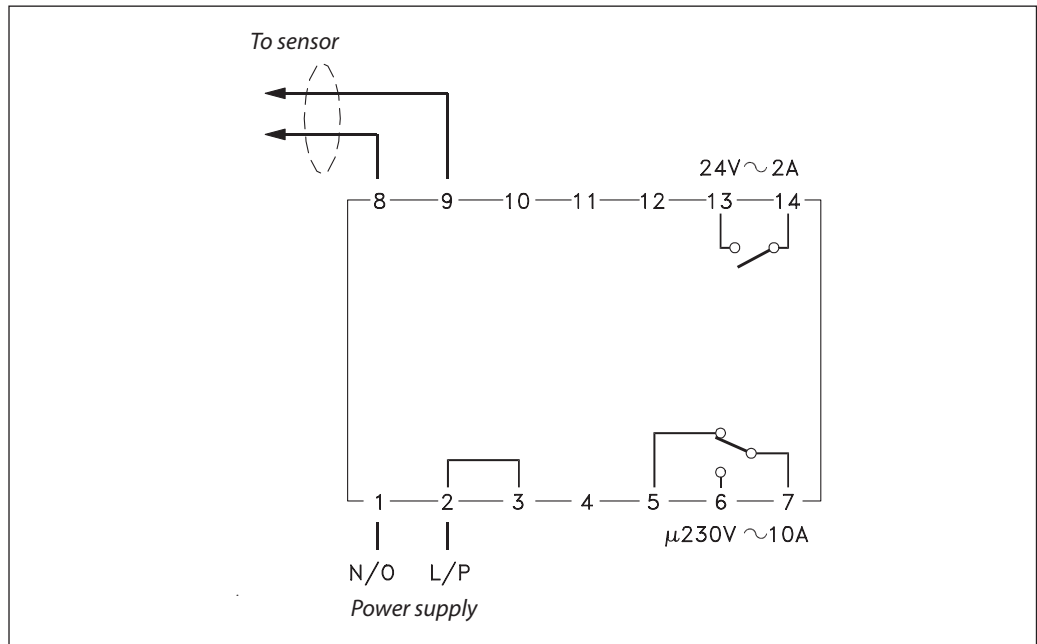
#### Valve

| Type    | Description                       | Code no.        |
|---------|-----------------------------------|-----------------|
| RA-C 15 | For chilling and heating circuits | <b>013G3094</b> |
| RA-C 20 | For chilling and heating circuits | <b>013G3096</b> |

#### Thermal actuator

All Danfoss thermal actuators, type TWA, can be used with the EDA dew-point alarm. Further information is available from the TWA data sheets.

Wiring diagram

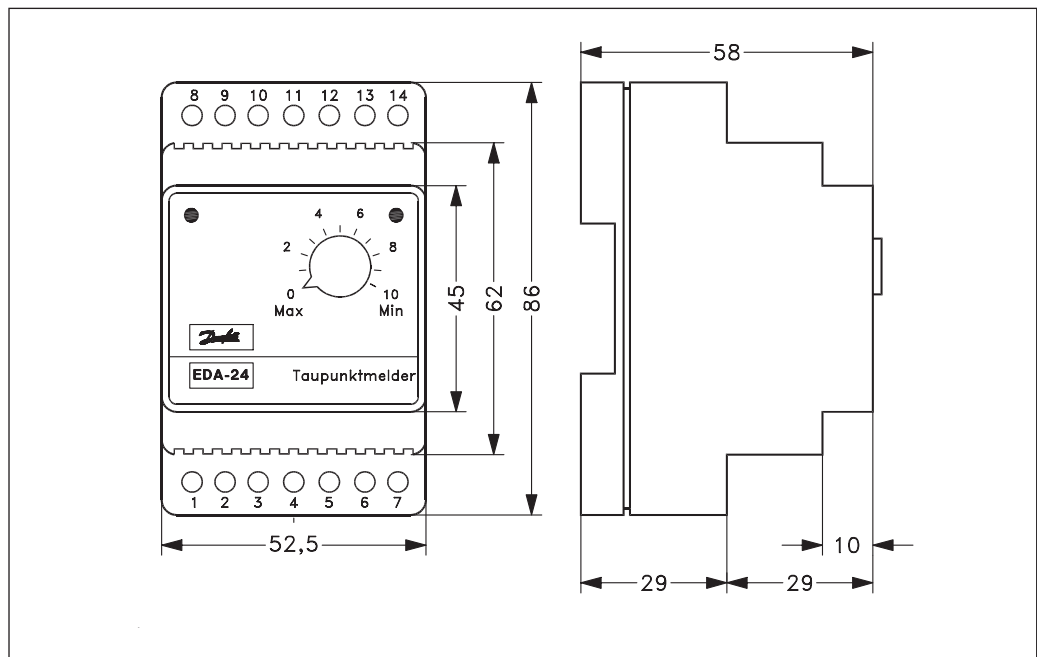


Data

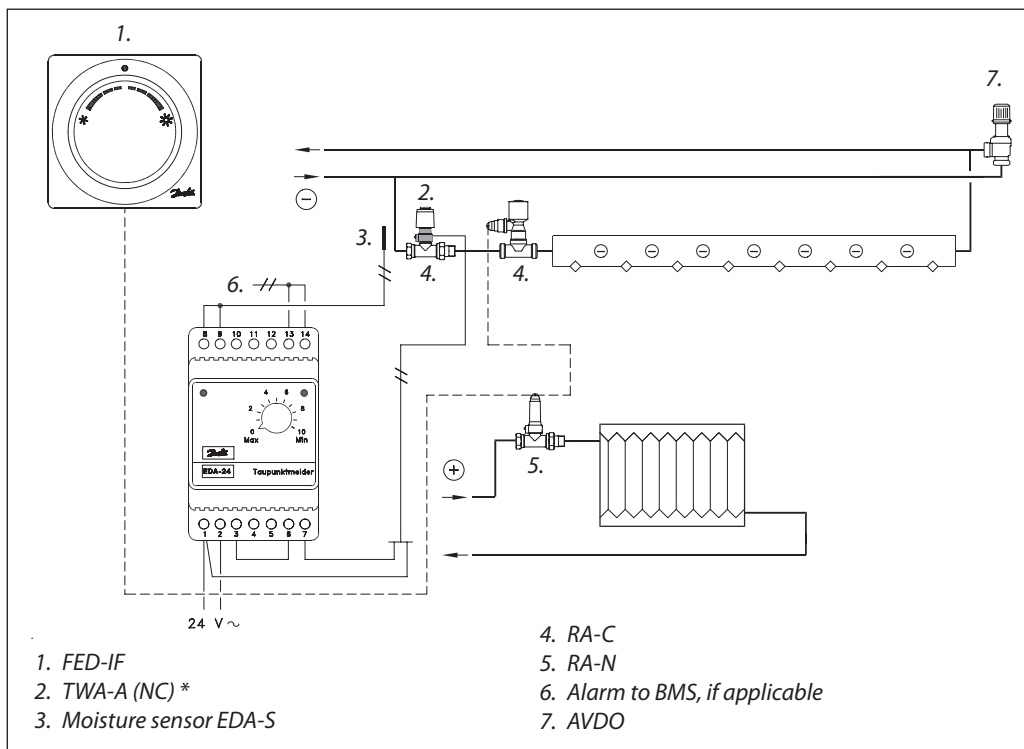
| Type                        | EDA-24                 | EDA-230                 |
|-----------------------------|------------------------|-------------------------|
| Supply voltage              | 24 VAC ± 10%, 50-60 Hz | 230 VAC ± 10%, 50-60 Hz |
| Power consumption           | 3 VA                   | 3 VA                    |
| Relay output 1* (7-5 / 7-6) | 230 VAC, 10 A, NO/NC   | 230 VAC, 10 A, NO/NC    |
| Relay output 2* (13-14)     | 24 VAC, 2 A, NC        | 24 VAC, 2 A, NC         |
| Ambient temperature         | -20 / +50 °C           | -20 / +50 °C            |

\* Stated with connected supply voltage, but condensate alarm not in alarm mode.

Dimensions



Electrical connection, self-actuating climatic regulator FED-IF



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