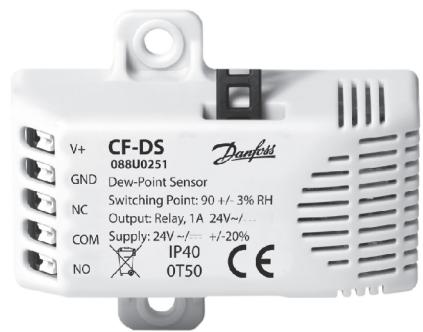


Data Sheet

CF-DS Dew Point Sensor

Application

The CF-DS dew point sensor is used in floor heating/cooling systems to protect against building of condensation. The CF-DS is strapped onto the supply pipe and connected to the Global Standby input on the CF-MC Master Controller. CF-DS measures the relative air humidity compared to the pipe temperature. At 90% RH the dew point sensor sends a signal to the CF-MC Master Controller, which closes the cooling supply pipes.



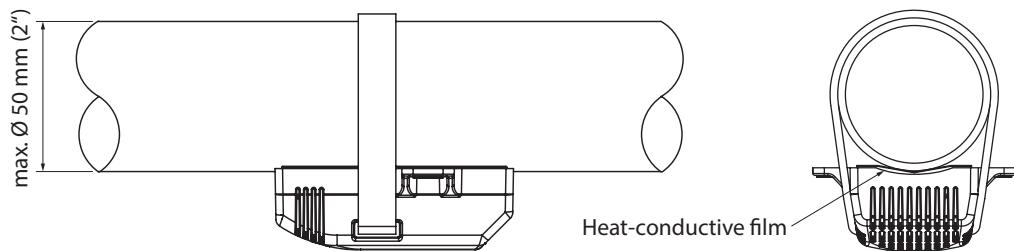
Ordering

Product	Code no.
CF-DS dew point sensor	088U0251

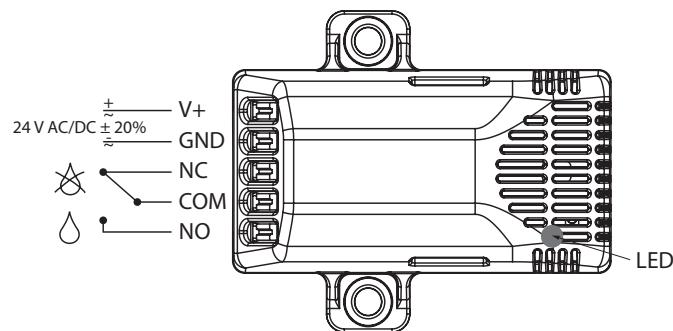
Technical Data

Humidity sensor	HC 105
Working range	10 - 100% RH
Switching point at 20°C / 68°F	90±3% RH
Switching hysteresis	5% RH
Response time, change of surface temperature	t ₉₀ < 3 min.
Response time, change of relative humidity	t ₉₀ < 25 sec.
Electrical output	potential free relay with changeover contact
Switching capacity	max. 24 V AC/DC, 1 A
Supply voltage	24 V AC/DC ± 20%
Current consumption at 24 V DC	< 3 mA
Relay status indication	LED (red)
Electrical connection	5-pole push-in terminal, max. 1.5 mm ²
Dust protection	by special coating (permeable for water vapour)
Housing protection class	IP40
Housing material	PC, fire resistant (according to UL94-V0)
Electromagnetic compatibility	EN 61326-1, EN 61326-2-3
Working temperature	0 - 50° C (32 - 122° F)
Storage temperature	-20 - 70° C (-4 - 158° F)
Size (L x H x W)	63 x 54 x 23 mm
Weight	approx. 60 g

Mounting



Wiring Connections



Status indication:

- LED continuous light: Operating < 90% RH
- LED blinking: Condensation danger

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