

### **Condensation Switch**

For detection of condensation on chilled surfaces (e.g. chilled beams). With relay contact for connection to controller and display systems or for series connection with the cooling valve to interrupt the cold water flow directly when condensation begins. NEMA 4X / IP65 rated enclosure.



## **Type Overview**

Туре	Output signal condensation detector relay	Additional features	Cable length
22HH-500X	Changeover	External Sensor	6.5 ft [2 m]
	g		

# Technical data

Electrical Data	Nominal voltage	AC/DC 24 V	
	Remark about nominal voltage range	AC 21.626.4 V / DC 13.526.4 V	
	Power consumption AC	1.6 VA	
	Power consumption DC	0.8 W	
	Electrical connection	Pluggable spring loaded terminal block max. 2.5 mm <sup>2</sup>	
	Cable entry	Cable gland with strain relief ø68 mm (1/2" NPT conduit adapter included)	
Functional Data	Application	water	
	Output signal condensation detector relay note Changeover contact, potential-free		
		Max. switching current 1 A @ 24 V	
		Min. switching current 5 mA @ 10 V	
	Display	LED, green - power supply OK	
		Red - condensation	
Measuring Data	Measured values	Condensation	
Safety Data	Protection class IEC/EN	III, Protective Extra-Low Voltage (PELV)	
	Power source UL	Class 2 Supply	
	Degree of protection IEC/EN	IP65	
	Degree of protection NEMA/UL	NEMA 4X	
	Enclosure	UL Enclosure Type 4X	
	EU Conformity	CE Marking	
	Certification IEC/EN	IEC/EN 60730-1	
	Quality Standard	ISO 9001	
	UL 2043 Compliant	Suitable for use in air plenums per Section	
	·	300.22(C) of the NEC and Section 602 of the	
		IMC	
	Type of action	Type 1.B	
	Rated impulse voltage supply	0.8 kV	
	Pollution degree	3	
	Ambient humidity	Max. 95% RH, non-condensing	



Safety Data	Ambient temperature	-2050°C [-5122°F]
	Fluid temperature	-5140°F [-2060°C]
Materials	Cable gland	PA6, black
	Housing	Cover: PC, orange
		Bottom: PC, orange
		Seal: NBR70, black
		UV resistant
		UL94 5VA

## Safety Notes



This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application. Unauthorized modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten humans, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment. Only authorized specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

#### Remarks

**General Remarks Concerning Sensors** 

rs Sensing devices with a transducer should always be operated in the middle of the measuring range to avoid deviations at the measuring end points. The ambient temperature of transducer electronics should be kept constant. The transducers must be operated at a constant supply voltage (±0.2 V). When switching the supply voltage on/off, onsite power surges must be avoided.

Parts included

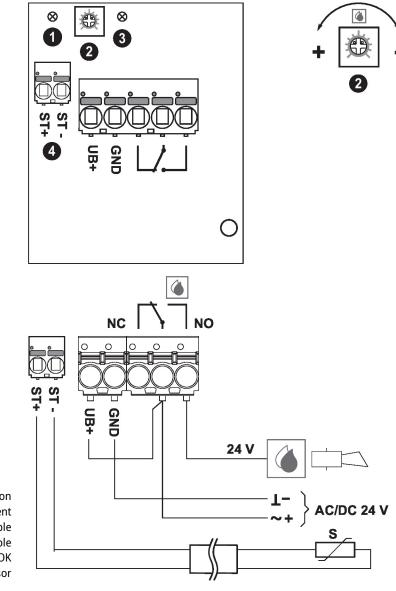
#### Description

Mounting plate S housing Syringe with thermal paste Screws Dowels Cable tie 1/2" NPT conduit adapter

## **Type** A-22D-A09 A-22P-A44







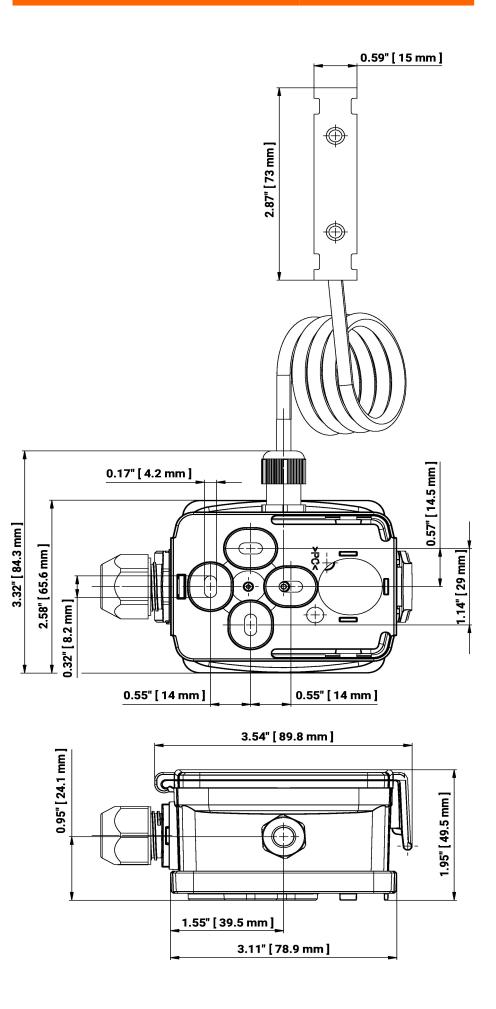
LED red: condensation
 Sensitivity adjustment

 less sensible
 more sensible
 LED green: power supply OK
 For external condensation sensor



Dimensions







Dimensions

Туре	Weight	
<b>22HH-500X</b> 0.44 lb [0.20 kg]		

Further documentation

• Installation instructions