

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.

Technical data sheet

22HH-50





Type Overview

	Туре	Output signal condensation detector relay	Additional features	
	22HH-50	Changeover	Internal Sensor	
echnical data				
Electrical Data	Nominal voltage	AC/DC 24 V		
	Nominal voltage range	AC 21.626.4 V	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 2.5 mm²	g loaded terminal block max	
	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 @ 2		
		Min. switching c	urrent 5 mA @ 10 V	
	Display	LED, green - pov		
		Red - condensat	ion	
Measuring Data	Measured values	Condensation		
Materials	Cable gland	PA6, black		
	Housing	Cover: PC, orange		
		Bottom: PC, orai	-	
		Seal: NBR70, bla	ck	
		UV resistant		
		UL94 5VA		
Safety Data	Protection class IEC/EN	III, Protective Ex	tra-Low Voltage (PELV)	
	Power source UL	Class 2 Supply	Class 2 Supply	
	Degree of protection IEC/EN	IP65		
	Degree of protection NEMA/UL	NEMA 4X	NEMA 4X	
	Enclosure	UL Enclosure Ty	UL Enclosure Type 4X	
	EU Conformity	CE Marking	CE Marking	
	Certification IEC/EN	IEC/EN 60730-1	IEC/EN 60730-1	
	Quality Standard	ISO 9001		
	UL 2043 Compliant		in air plenums per Section NEC and Section 602 of the	
	Type of action	Туре 1.В		
	Rated impulse voltage supply	0.8 kV		



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Safety Data	Installation method	Independently mounted control
	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-2050°C [-5122°F]
	Fluid temperature	-5140°F [-2060°C]

Safety Notes



avoided.

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 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.

voltage (±0.2 V). When switching the supply voltage on/off, onsite power surges must be

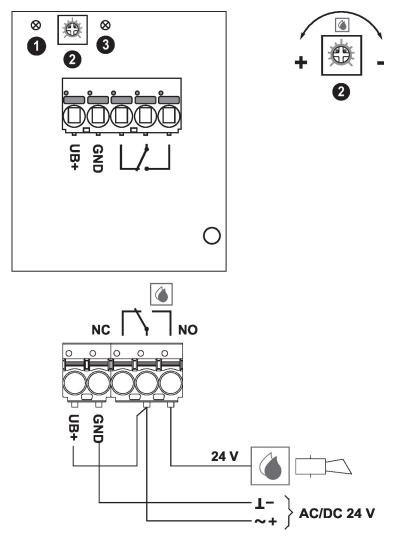
rks General Remarks Concerning Sensors Sensing devices with a transducer should always be operated in the middle of the measuring range to avoid deviations at the measuring end points. The ambient temperature of transducer electronics should be kept constant. The transducers must be operated at a constant supply

Parts included

Remarks

Parts included	Description	Туре
	Syringe with thermal paste	A-22P-A44
	Cable tie 1/2" NPT conduit adapter	

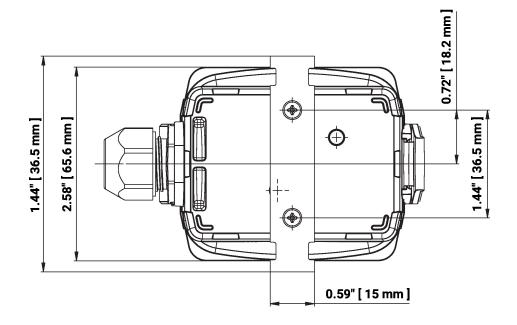


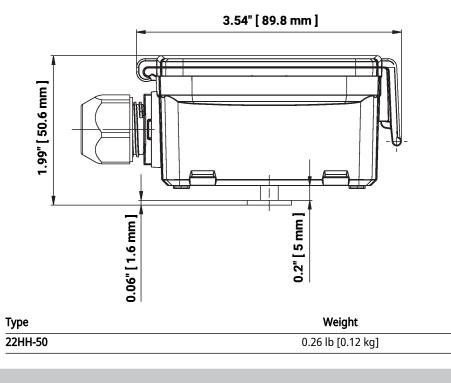


LED red: condensation
 Sensitivity adjustment

 less sensible
 more sensible
 LED green: power supply OK







Further documentation

• Installation instructions