

Specification and Installation Instructions

Model SHS20

DescriptionThe SHS20 is a wall mounted high limit humidistat capable of monitoring and controlling relative humidity for applications using a room distribution system. Its primary function is to act as an On/Off high limit protection for humidifiers equipped with a space distribution unit (SDU).

Features

- On/Off high limit humidistat with on-board setpoint adjustment (20 to 90%RH)
- Built-in humidity sensor
- Plastic cover for wall mount installation
- 24Vac or 24Vdc
- 1 dry contact output (normally open)



Technical Specifications

Specifications	SHS20
Power supply	24 Vac or Vdc ±10%
Power consumption	1 VA
Electrical connection	0.8 mm ² [18 AWG] minimum
Humidity sensor precision	±3% at 40 %RH and 23°C [73°F]
High limit setpoint range	20 to 90 %RH
Operating temperature	32°F to 104°F [0°C to 40°C]
Storage temperature	14°F to 122°F [-10°C to +50°C]
Relative humidity	0 to 95 %RH
Enclosure protection	IP 30 (EN 60529)
Weight	0.13 lb [60 g]
Dimensions A = 2.85" (72mm) B = 4.85" (123mm) C = 1.00" (25mm) D = 2.36" (60mm) E = 3.27" (83mm) F = 1.02" (26mm)	

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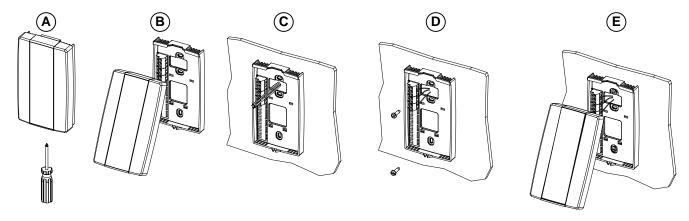
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Mounting Instructions

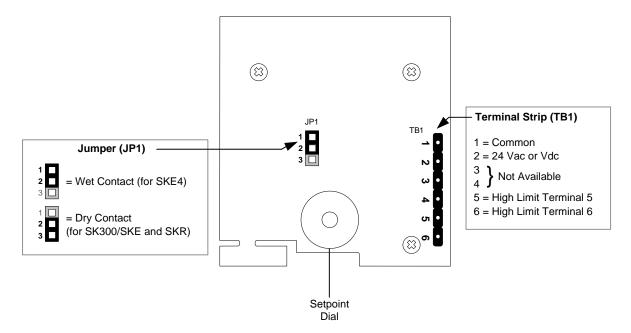


CAUTION: Remove power to avoid a risk of malfunction.

- A. Remove the captive screw that's holding the base and the front cover of the unit together.
- B. Lift the front cover of the unit to separate it from the base.
- C. Pull all wires through the holes in the base.
- D. Secure the base to the wall using wall anchors and screws (supplied). Make the appropriate connections.
- E. Mount the front cover on the base and secure using the screw.



PCB Overview



Operation

- The contact is normally open when not powered.
- The contact opens without delay when the %RH reading is above the setpoint, i.e., reading > setpoint.
- The contact opens for a minimum of 2 minutes for anti-cycling purposes.
- The contact closes when the reading is below the setpoint hysteresis of 5%RH, i.e., reading < (setpoint 5%RH).

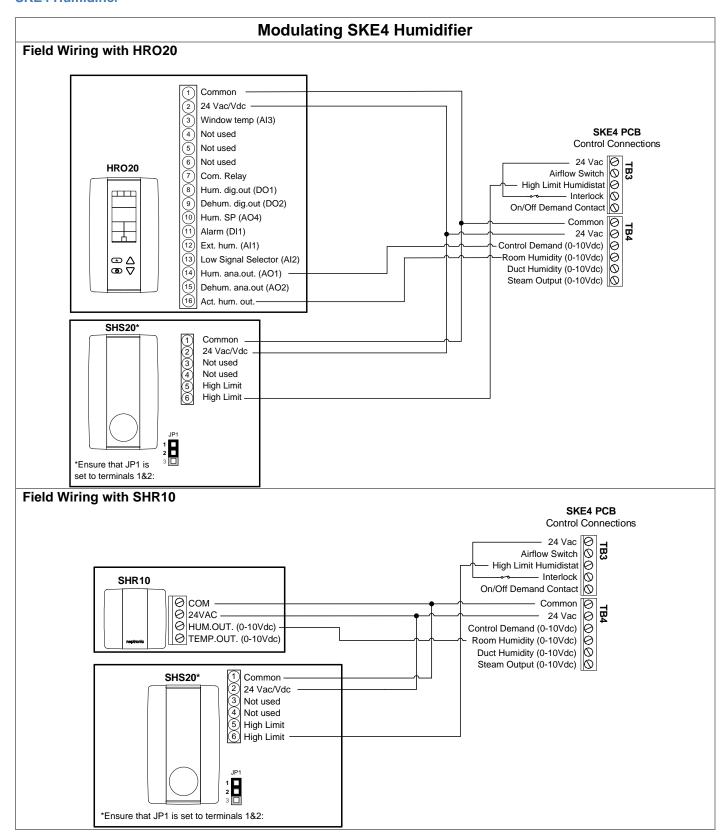
A change in the setpoint of more than 5%RH immediately updates the status of the contact.



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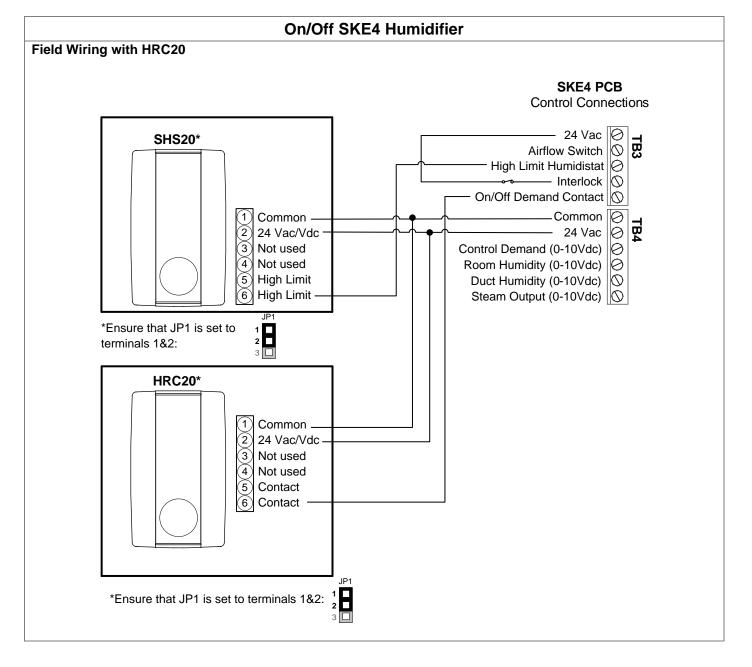
Wiring Diagrams

SKE4 Humidifier





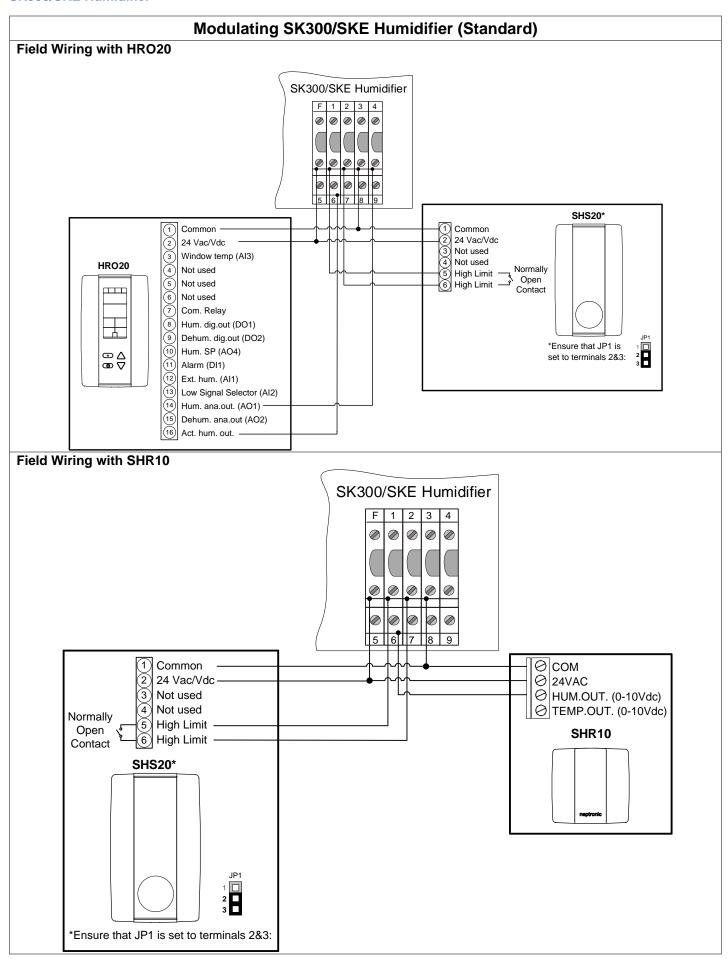
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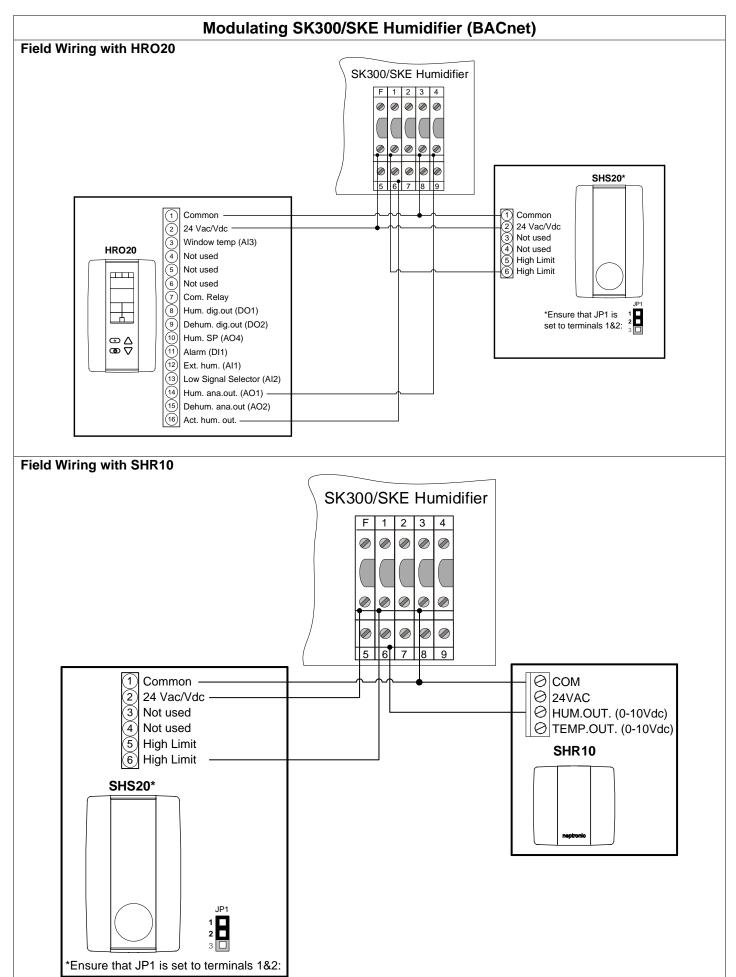
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SK300/SKE Humidifier



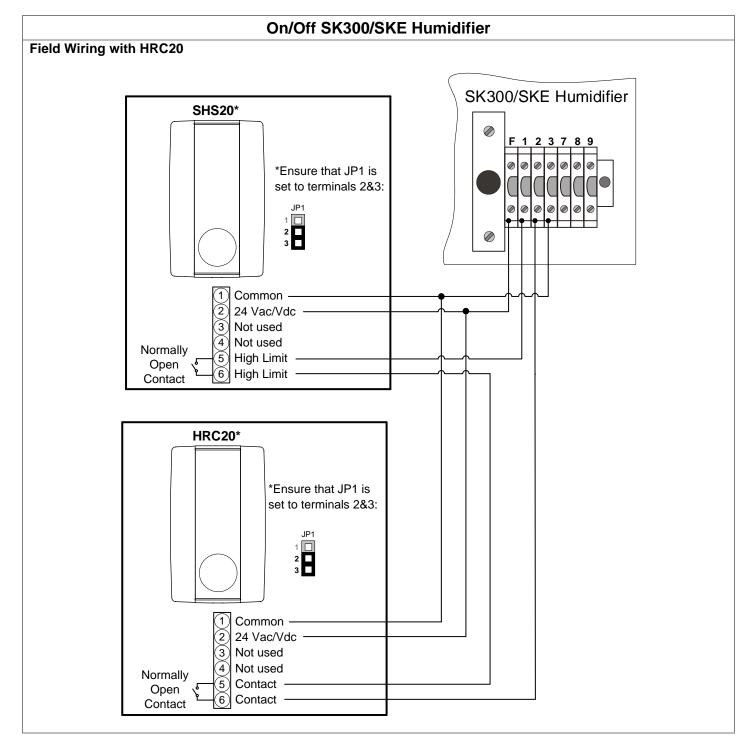


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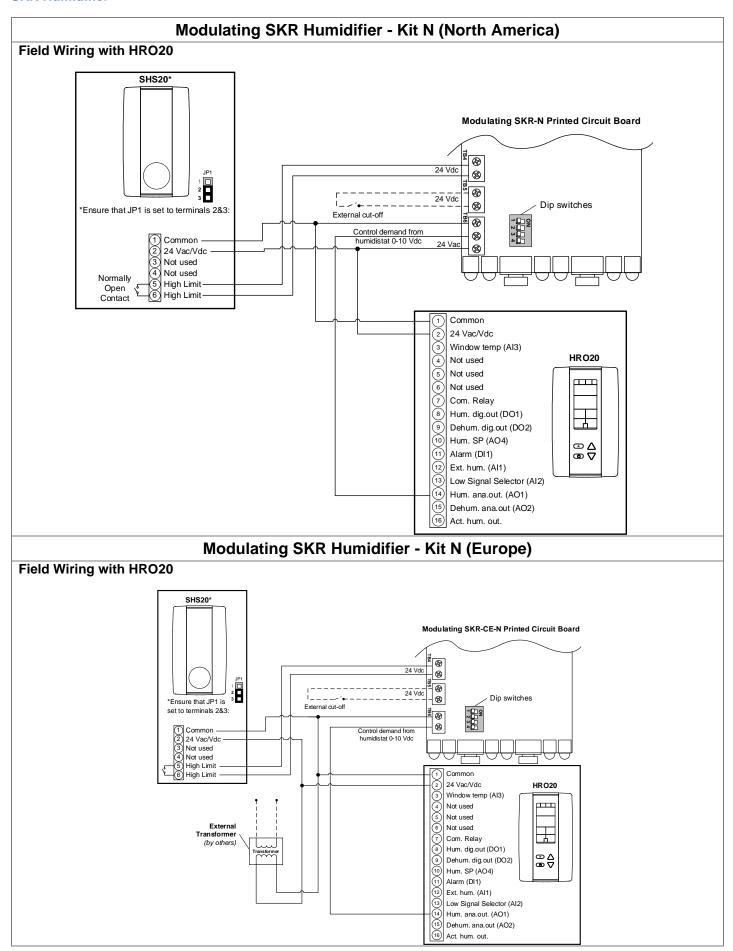
Room High Limit Humidistat Specification and Installation Instructions





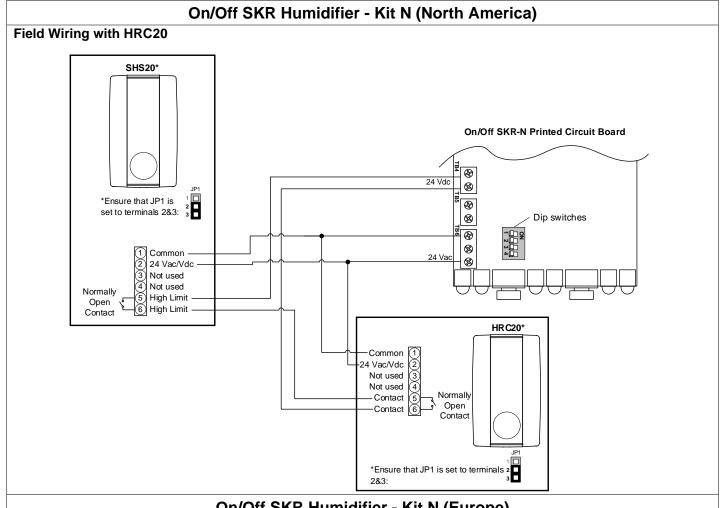
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SKR Humidifier

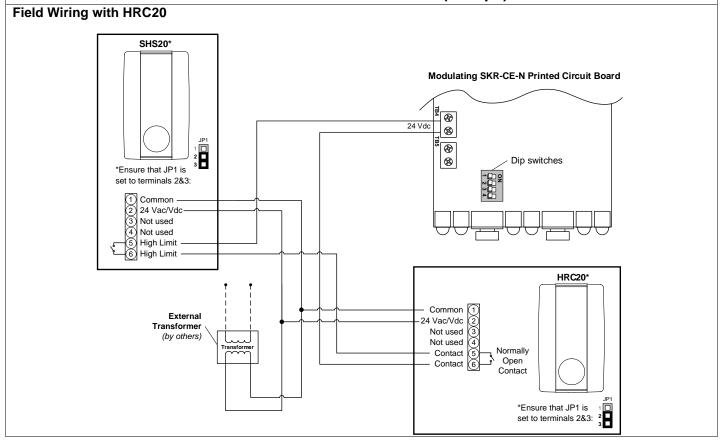




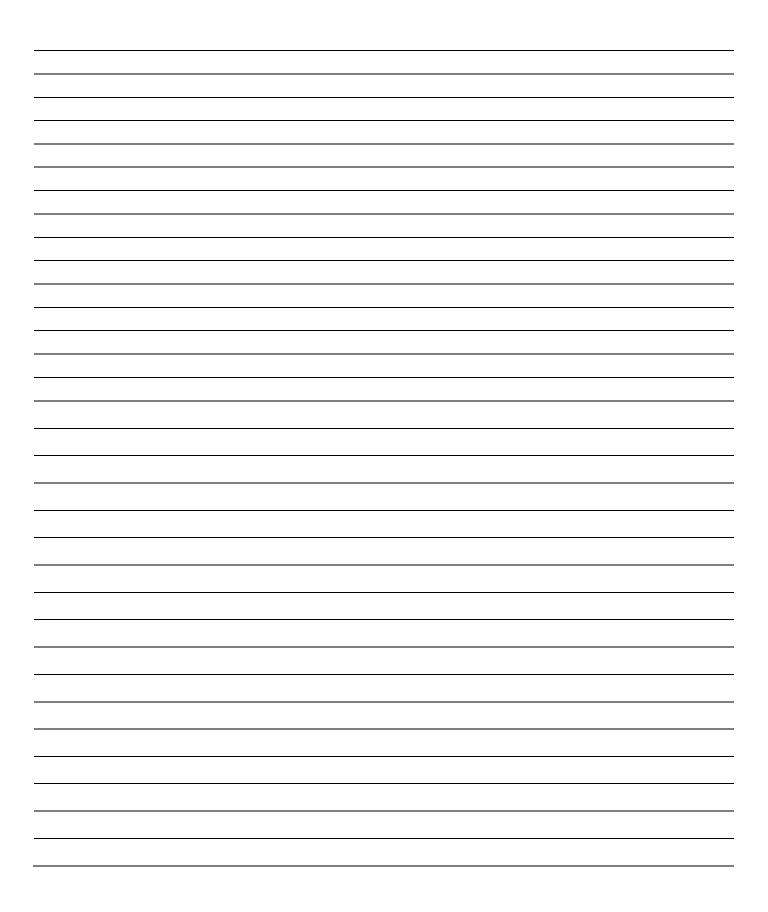
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On/Off SKR Humidifier - Kit N (Europe)



Notes	





Recycling at end of life: please return this product to your Neptronic local distributor for recycling. If you need to find the nearest Neptronic authorized distributor, please consult **www.neptronic.com**.



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