

### Model

**SHS80-300** (Duct-Mount High-Limit Humidistat)

### Description

The SHS80-300 is capable of sensing, monitoring and controlling relative humidity in the supply or return air duct. Its primary function is to act as both a 0-10 Vdc humidity sensor and an On/Off high limit protection or On/Off return duct humidistat.

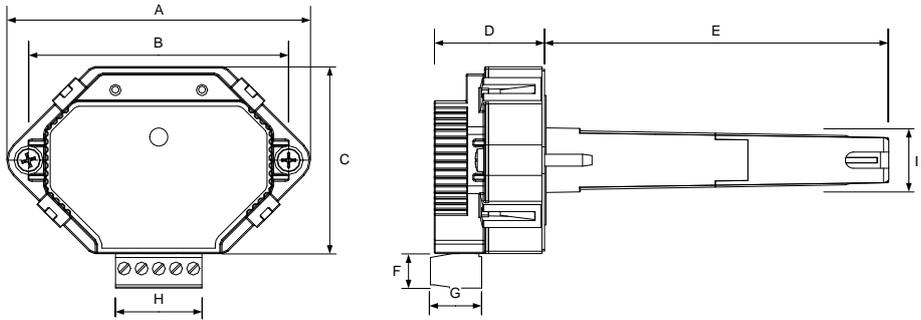
### Features

- On/Off high limit humidistat with on-board setpoint adjustment
- Built-in humidity transmitter (0-10 Vdc)
- Status LED & High Limit On/Off LED



**SHS80-300**

## Technical Specifications

Description	SHS80-300
Power supply	24 Vac or Vdc $\pm 10\%$
Power consumption	1 VA
Electrical connection	0.8 mm <sup>2</sup> [18 AWG] minimum
Humidity transmitter output	0-10 Vdc (0-100 %RH)
Humidity sensor precision	$\pm 3\%$ at 40 %RH and 23°C [73°F]
On/Off high limit setpoint range	20 to 90 %RH
Operating temperature	-40°C to 80°C [-40°F to 176°F]
Weight	0.35lb [160g]
Contact rating	Dry contact, 1A max, 24 Vac
Storage temperature	-10°C to 50°C [14°F to 122°F], 0-95% RH
Status LED (right)	Flashes if the device is powered on. Turns OFF if the device is powered off.
High Limit On/Off LED (left)	Turns ON if there is a high limit cutout. Turns OFF if there is no high limit cutout.
Dimensions	

## Mounting Instructions

Install the SHS80-300 directly on the supply air duct using the accessories. For standard humidifier applications, power the unit using the 24 Vac power supply provided from the humidifier.

*This product is subject to the terms and conditions described at <http://www.neptronic.com/Sales-Conditions.aspx>.*



Any installation or maintenance work must be carried out by suitably qualified personnel.



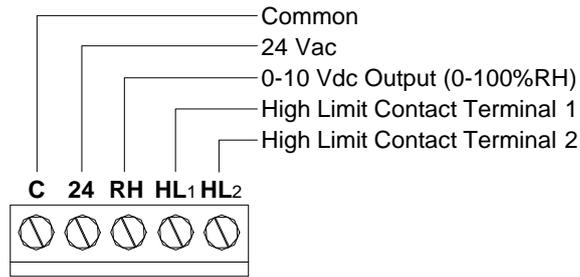
Disconnect the main supply on the unit and external loads before proceeding with any installation or maintenance.

## 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 two minutes for anti-cycling purposes.
- The contact closes when 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.

## Wiring Diagrams

### Terminal Description

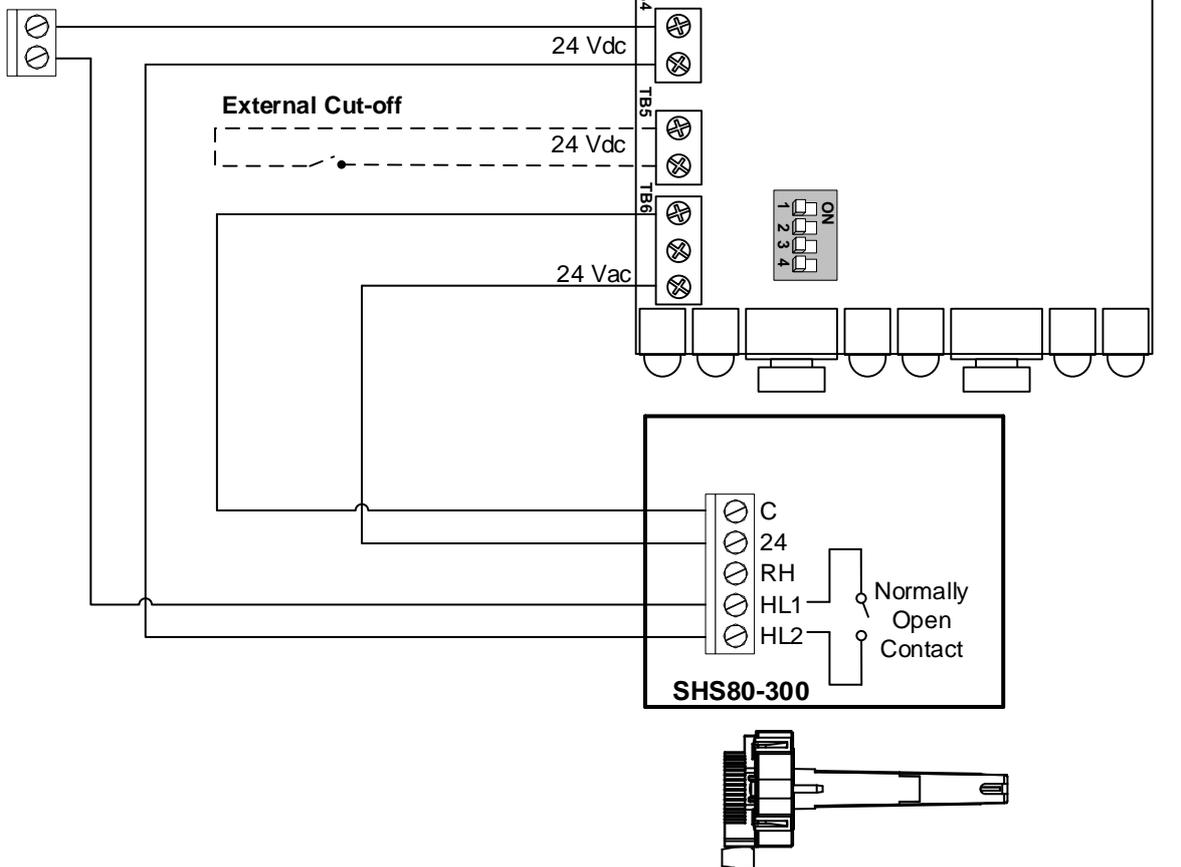


### Modulating SKR Humidifier - Kit N (North America)

### Standard Field Wiring

#### Modulating SKR-N Printed Circuit Board

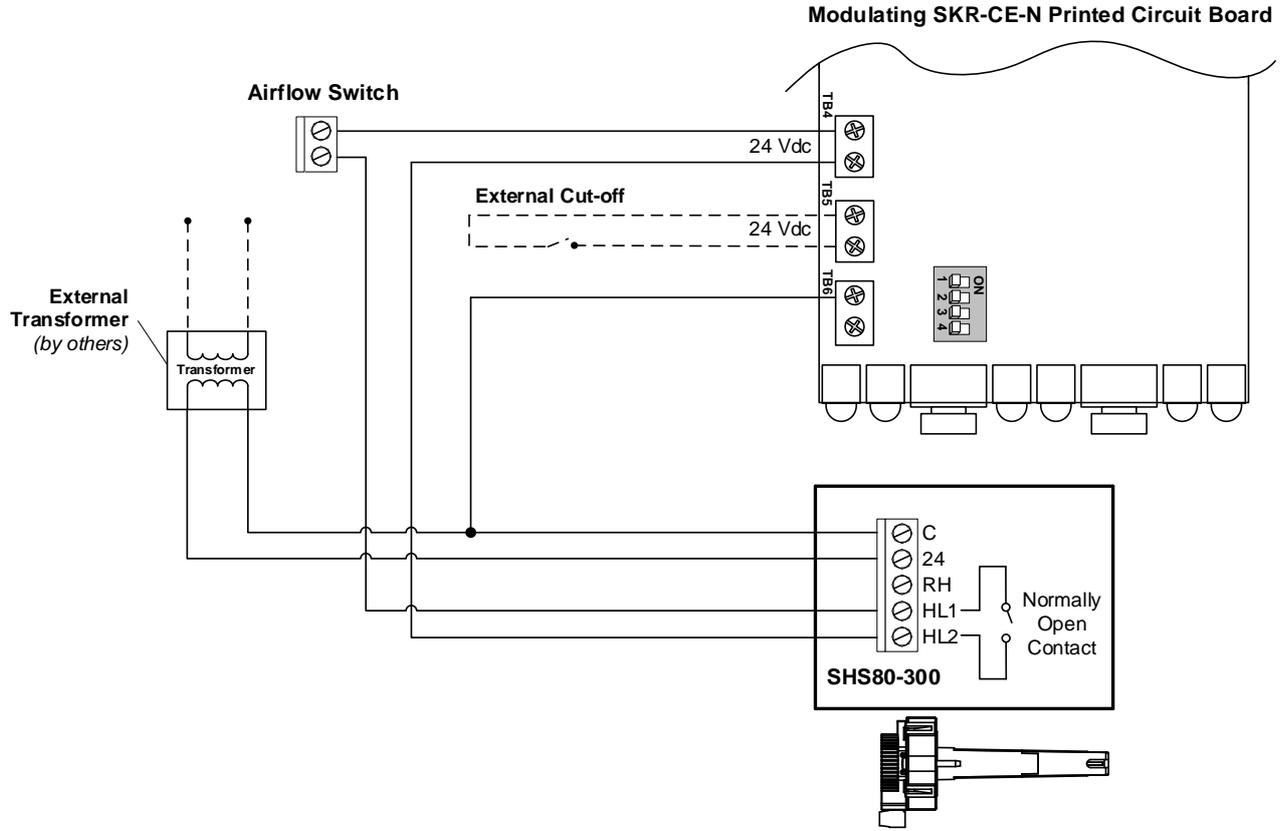
#### Airflow Switch





Modulating SKR Humidifier - Kit N (Europe)

Standard Field Wiring



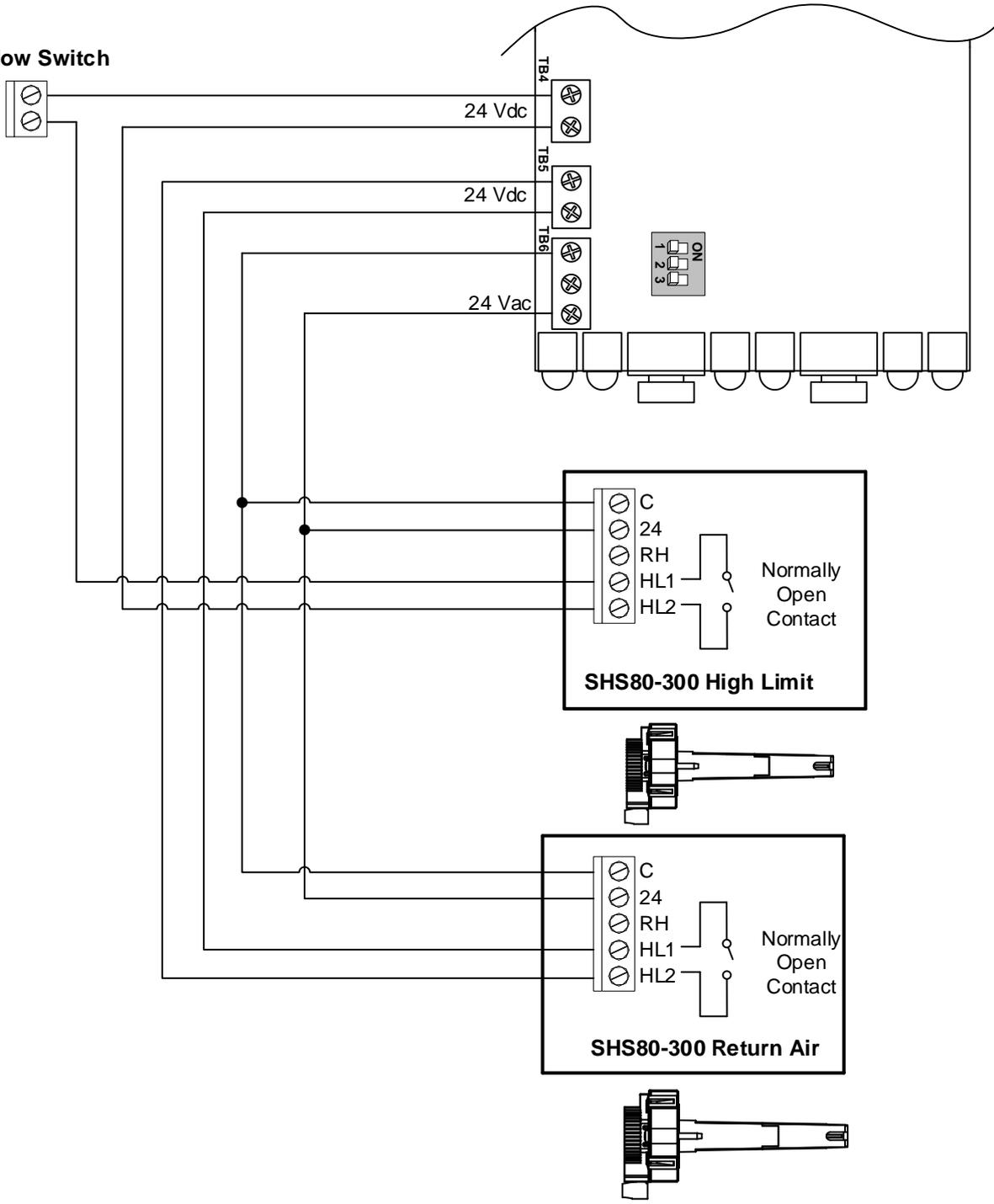


On/Off SKR Humidifier - Kit N (North America)

Standard Field Wiring

On/Off SKR-N Printed Circuit Board

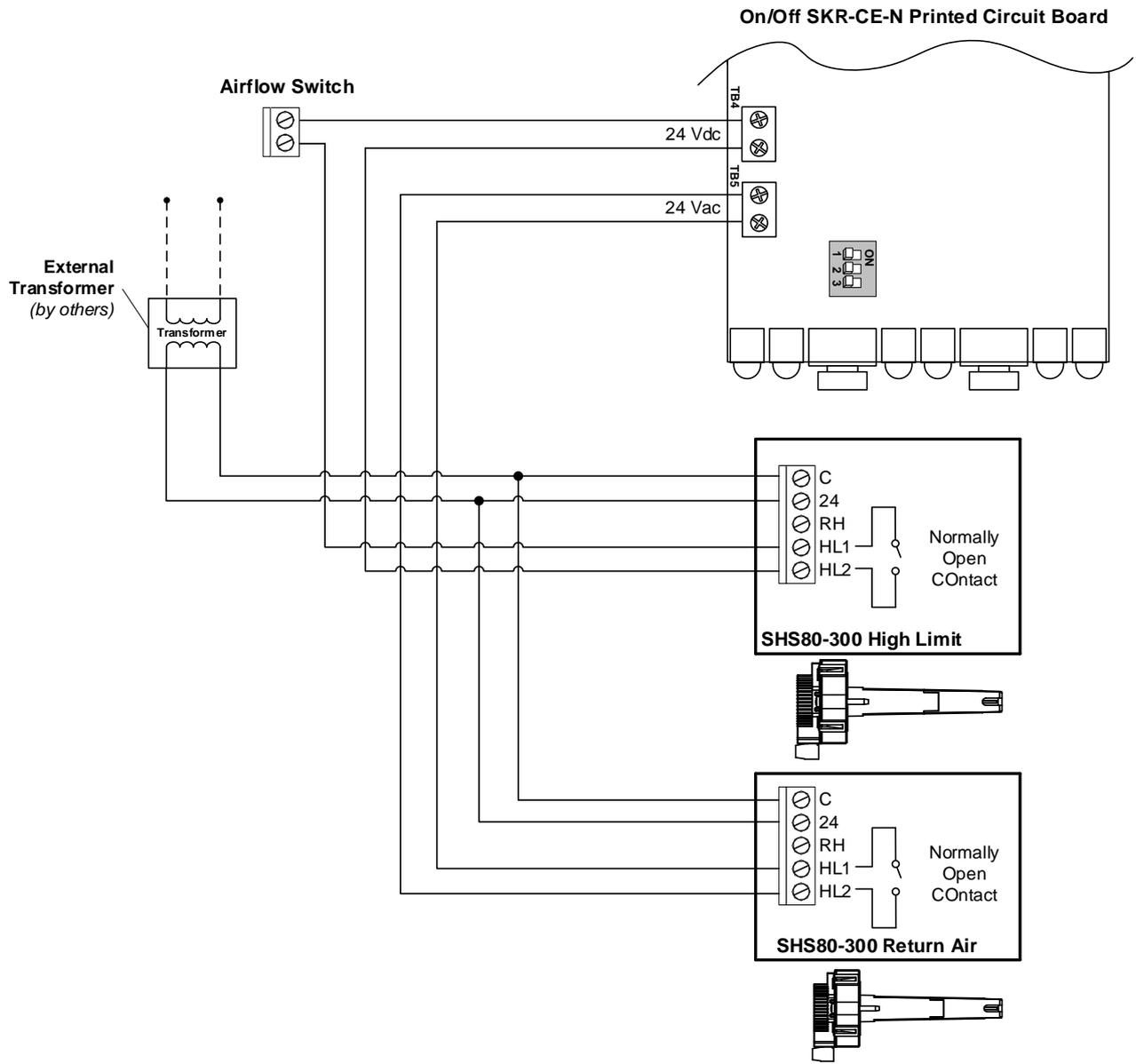
Airflow Switch





On/Off SKR Humidifier - Kit N (Europe)

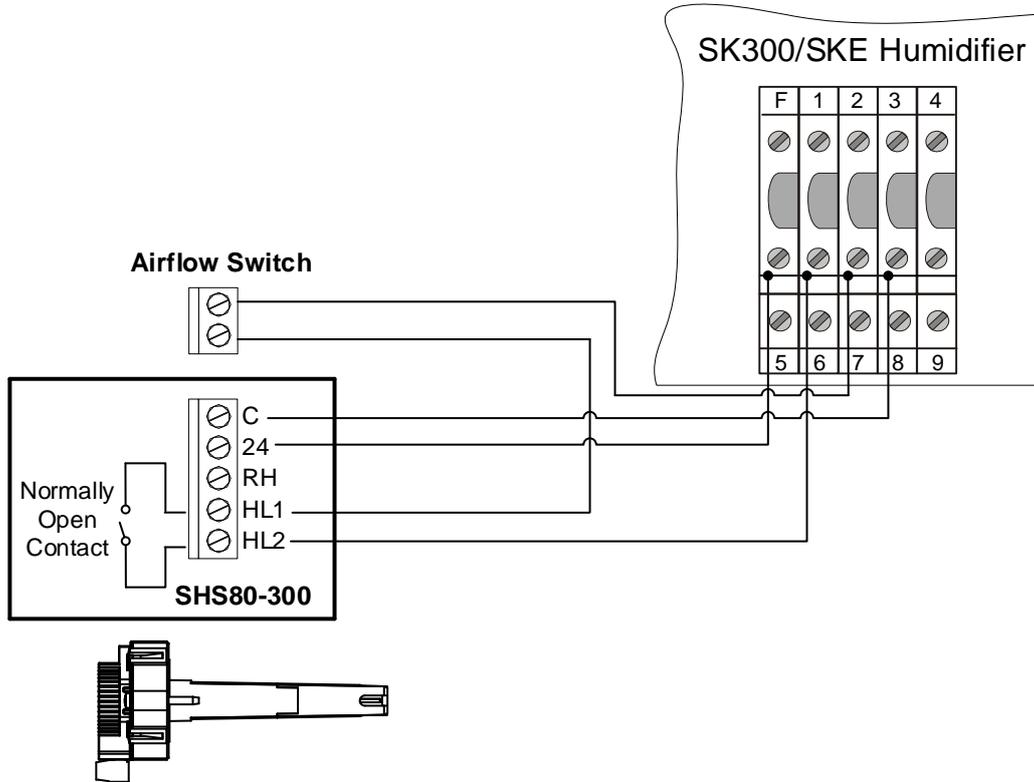
Standard Field Wiring



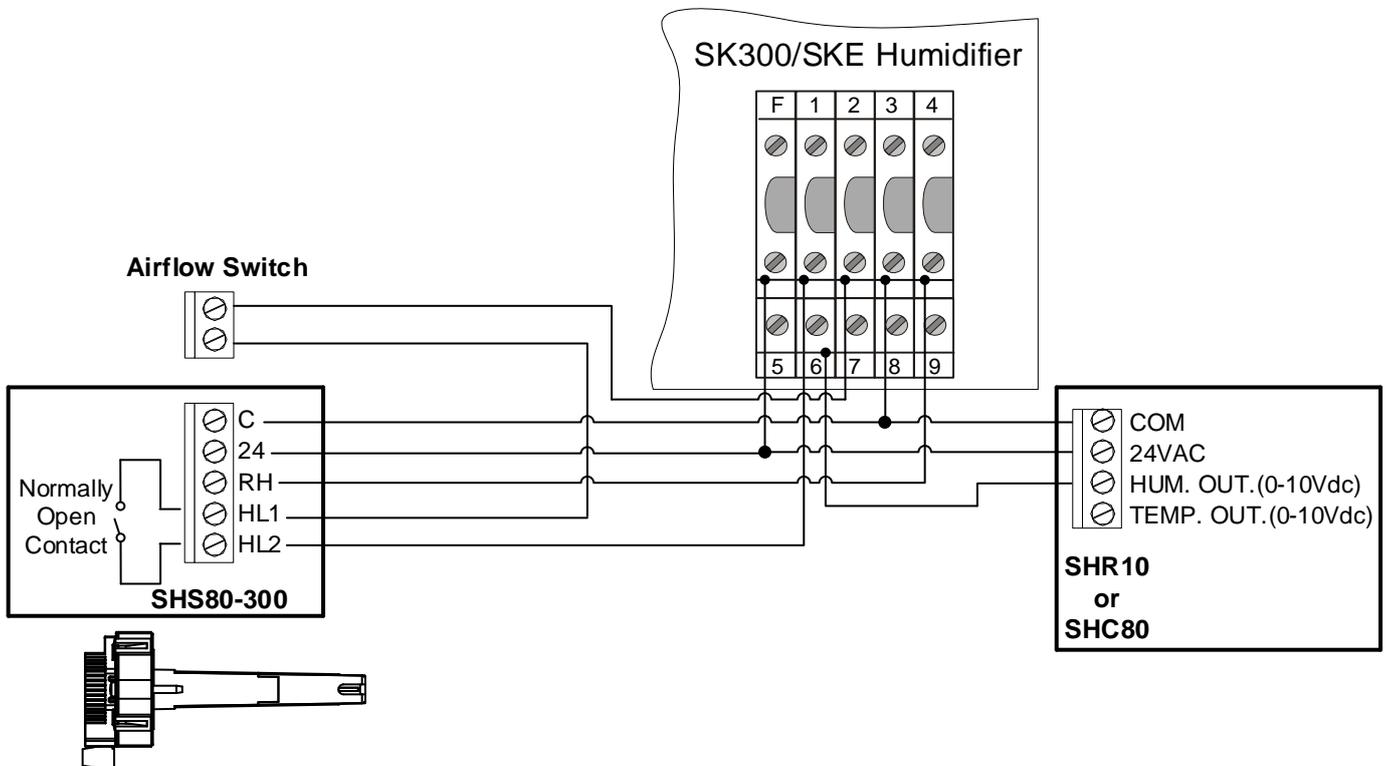


**Modulating SK300/SKE Humidifier**

**Standard Field Wiring**



**Field Wiring for VAV Application**







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](http://www.neptronic.com).



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