

HH-6705 Series

TRUERH™ Duct Humidistat

Description

The HH-6705 Series Duct Humidistat is typically mounted downstream from a humidifier, and turns the humidifier off (contact opens) when the setpoint is reached. Setpoint is adjustable from 30 to 90% Relative Humidity (RH). To reduce equipment cycling, the HH-6705 Series turns the humidifier on (contact closes) when the humidity in the duct falls 5% below the setpoint.

Repair Information

If the HH-6705 Series TRUERH™ Duct Humidistat fails to operate within its specifications, replace the unit. For a replacement humidistat, contact the nearest Johnson Controls® representative.

Features

- TRUERH™ circuitry and calibration techniques for which patent is pending
- All-Polymer™ humidity sensor with patented sensing element provides accurate and reliable humidity sensing with improved resistance to chemical corrosion
- 30 to 90% RH adjustable setpoint covers most application requirements, including humidification and dehumidification
- 5% fixed differential reduces humidification equipment cycling
- plastic duct probe improves thermal performance
- quick-mount, 2-screw installation reduces installation time and simplifies retrofits

TRUERH™ True ±2% Accur



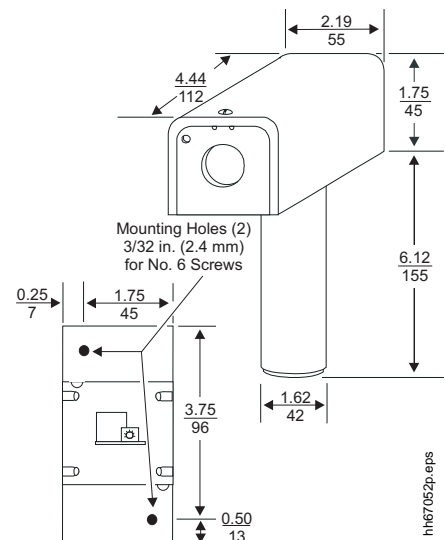
HH-6705-9N0GP Duct Humidistat

Selection Chart

Code Number	Description
HH-6705-9N0GP	Duct Humidistat

Technical Specifications

HH-6705 Series TRUERH™ Duct Humidistat		
Power Requirements	20 to 30 VDC at 33 mA or 20 to 30 VAC, 50/60 Hz at 45 mA (1.35 VA maximum), Class 2	
Output	Single-Pole, Single-Throw (SPST), normally open relay contact Opens at setpoint on increasing RH Closes at 5% RH below setpoint on decreasing RH	
Relay Contact Rating	Maximum	4 ampere at 24 VAC; pilot duty 42.4 VA at 24 VAC, Class 2
	Minimum	100 mA at 5 VDC
Humidity	Element	All-Polymer
	Setpoint	Adjustable from 30 to 90% RH
	Sensing Range	0 to 100% RH, non-condensing
	Differential	Fixed 5% RH
Ambient Operating Conditions	32 to 122°F (0 to 50°C) 0 to 100% RH, non-condensing; 86°F (30°C) maximum dew point	
Survival Operating Conditions	-22 to 140°F (-30 to 60°C) 0 to 100% RH, non-condensing; 86°F (30°C) maximum dew point	
Ambient Storage Conditions	-40 to 176°F (-40 to 80°C) 0 to 100% RH, non-condensing; 86°F (30°C) maximum dew point	
Materials	Metal cover and housing with polymeric duct probe	
Dimensions	Overall (H x W x D)	4.44 x 2.19 x 7.87 in. (113 x 56 x 200 mm)
	Probe (D x L)	1.62 x 6.12 in. (41 x 155 mm)
Shipping Weight	1.5 lb (0.7 kg)	



HH-6705 Dimensions, in. (mm)