SAFETY CONTROLS

DHL
DUCT HI-LIMIT HUMIDISTAT

DHL is used as High limit humidistat safety when humidifying in duct. It is suitable for steam or adiabatic humidification.

Control mode:
ON/OFF

Set point range:
15 to 95%RH

Long term stability:
+/-1.5%RH

Contacts type & rating:
NO & NC SPDT potential free contacts
maximum 5A at 24Vac or Vdc

Switching differential:
4%RH

DAP
DUCT AIR PROVING SWITCH

DAP is used as Air proving safety switch when humidifying in duct. It will prevent from operating humidifier in case there is no air flow.

Control mode:
ON/OFF

Set point range:
20 to 300Pa

Max pressure:
7500Pa

Contacts type & rating:
NO & NC SPDT potential free contacts
maximum 2A at 250Vac
or 1A at 30Vdc

Max Switching frequency:
6 cycles / min

FLS
FLOOR LEAK SWITCH

FLS is used to detect any water accumulation on the floor of a room or duct, it is used to prevent from any water damage.

Supply voltage:
11 to 27Vac or Vdc

Relay:
SPDT

Relay rating:
1A @ 24Vac/Vdc

Display:
Green LED = Power On
Red LED = Alarm

Probes
Gold plated 38mm adjustable

Housing:
Cast aluminum, Stainless steel cover

RH% SENSORS & CONTROLLER

DHS
DUCT RH% SENSOR

DHS is used as RH% sensor when humidifying in duct. It is suitable for steam or adiabatic humidification. It should be installed in returned air duct for best reading.

Range:
0-100%RH

Output:
standard 0-10Vdc
optional 4-20mA (suffix 420)

Supply voltage:
15 to 28Vac or 15 to 36Vdc

Accuracy:
≤+/-3%RH (at 25°C, 20 to 80%RH)
optional ≤+/-2%RH

Hysteresis: ≤+/-1%RH

Response time: ≤10s (25°C)

Drift: ≤+/-0.5%RH

Options:
LCD display
Additional SPDT relays

RHS
ROOM RH% SENSOR

RHS is used as room RH% sensor. It is suitable for steam or adiabatic humidification.

Range:
0-100%RH

Output:
standard 0-10Vdc
optional 4-20mA (suffix 420)

Supply voltage:
15 to 28Vac or 15 to 36Vdc

Accuracy:
≤+/-3%RH (at 25°C, 20 to 80%RH)
optional ≤+/-2%RH

Hysteresis: ≤+/-1%RH

Response time: ≤10s (25°C)

Drift: ≤+/-0.5%RH

Options:
LCD display
Additional SPDT relays

RHC
ROOM RH% CONTROLLER

ASHRAE BACnet™

RHC is used as room RH% sensor. It is suitable for steam or adiabatic humidification.

Range:
0-95%RH,

Humidification set poit range:
10% RH to 90% RH

Supply voltage:
19 to 30Vac

Accuracy:
± 5% RH (at 10 to 32°C, 20 to 95%RH)

Options:
BACnet MS/TP