

## Electrical

### For: All models

#### Analog Inputs:

- (8) Temperature Sensors,  
10KΩ NTC probes no polarity sensitive
- (1) Pressure Transducer,  
0.5-4.5V ratiometric

#### Digital Inputs:

- (2) 0-5VDC max range, to interface  
with dry contacts

Wire: For above use 22 AWG  
stranded tinned copper 105°C  
Insulated

### For: 963-663A model

#### Supply Voltage:

100-240VAC, 50/60Hz

Fuses F1: 5 x 20mm, 250V,  
2A Fast acting Fuse

#### Digital Outputs:

- (3) PWM SSR Output,  
Pilot Duty - Up to 3 valves, 100-140 Vac,  
Max 0.25A each valve (for EEV control)
  - (1) 5VDC Pulsed Anti-Sweat Output,  
15mA max (for optional Solid State Relay)
  - (1) Fan Relay N.C.: 5A res, 4.9 FLA @240 VAC, PD
  - (1) Defrost Relay N.C.: 5A res. @240 VAC, PD  
N.O. 1.9A @240 VAC or 2.8A @120VAC Pilot  
Duty
  - (1) Lighting Relay N.C.: 5A res. @240 VAC,  
N.O. 2.4A @240V or 3.6A @120V Std. Ballast
- Fuses F2, F3, F4: 5 x 20mm, 250V,  
5A Slo Blow, F8 idem but 1.5A fast act.

### For: 963-3V2R, 963-3V3R models

#### Supply Voltage:

115-230VAC, 50/60Hz

#### Relay Outputs:

Note: Power supplied to load comes from the power  
supplied to the relay card

- (1) Anti-Sweat Solid-State Relay Output,  
115-230 V ac, 12 A Resistive
- (1) Fan Output: 5A res. @ 240 VAC, 4.9 FLA
- (1) Curtain Closing: 115-230 V ac, ½ HP and  
115-230 V ac, 12A Resistive
- (1) Curtain Opening + Schedule Output:  
1 HP @115-230 VAC, and 12A Resistive  
@115-230 VAC,

Fuses F5, F6, F7: 3AG/MDA 12A/250V  
1/4 x 1 1/4" Time-Delay

#### Network Connections:

- (1) LonWorks TP/FTT-10  
Network @ 78kbps

Wire: 18 AWG 7/26 stranded, unshielded twisted pair (Belden  
8461 or equivalent)

## Mechanical

#### Operating Temperature:

963-663A model -13°F to 122°F (-25°C to 50°C)

963-3V2R, 3V3R models -13°F to 104°F (-25°C to 40°C)

#### Humidity:

0-95% RH (non-condensing)

#### Enclosure:

961-663A model PC (dark gray)

#### Wiring:

Screw terminals

#### Mounting: Horizontally or Vertically

961-663A can be Wall mount,  
SnapTrack panel, or DIN rail (EN  
50022) inside kick plate or metal  
enclosure

## Dimensions (WxHxD)

#### ABS Plastic Enclosure:

12.50 x 4.56 x 2.15 inches  
318 x 116 x 55 mm

#### Metal Enclosure: 963-663A model

15.2 x 6.8 x 3 inches  
386 x 173 x 76 mm  
Indoor use, Type 1

#### Metal Enclosure: 963-3V2R, 3V3R models

24.2 x 6.8 x 3 inches  
615 x 173 x 76 mm  
Indoor use, Type 1

## Compliance

#### Environmental: ROHS

#### Safety: Type 1.C Action Operating Control

UL/CUL (LISTED per UL60730-1 and UL60730-2-9)  
Pollution Degree 2  
Impulse Voltage: 2500V  
ELV limit realized 25V, 5V