

24V Crossover Interface

Model: KSAIC0701230

Submittal Data

Job Data: _____ Location: _____

Buyer: _____ Buyer P.O. #: _____ Carrier #: _____

Unit Number: _____ Model Number: _____

Performance Data Certified By: _____ Date: _____



**Crossover 24V Interface
(KSAIC0701230)**

Parts Included

- Installation/Owner's Manual
- Screws M4*35 x 3
- Screws M4*16 x 4
- Wall Anchor x 3
- Return Air Thermistor Assembly (T1)
- Return Air Thermistor (T1) Assembly Extension Wire (16 ft (5m))
- Zip Ties x 3

24V Crossover Interface Features

Category	Details
Applications	○ Designed for use with Crossover Heat Pumps and AHRI rated Carrier Residential furnaces and fan coils ○ One 24V Interface to one indoor unit installation application
Compatibility	Compatible with 37MUHA and 37MURA Crossover Heat Pumps
Device Connections	S1/S2 port (2-wire) at CN17
Additional Connections	Supports an optional 24V thermostat with DIP switch configuration (Factory Standard Setting)
24V Thermostat	○ RT1 thermistor must be on the 24V Interface for proper temperature sensing ○ Factory supplied RT1 thermistor extension wires (16ft)
RT1 Thermistor	○ Designed for use with Crossover Heat Pumps and AHRI rated Carrier Residential furnaces and fan coils ○ One RT1 Thermistor to one indoor unit installation application

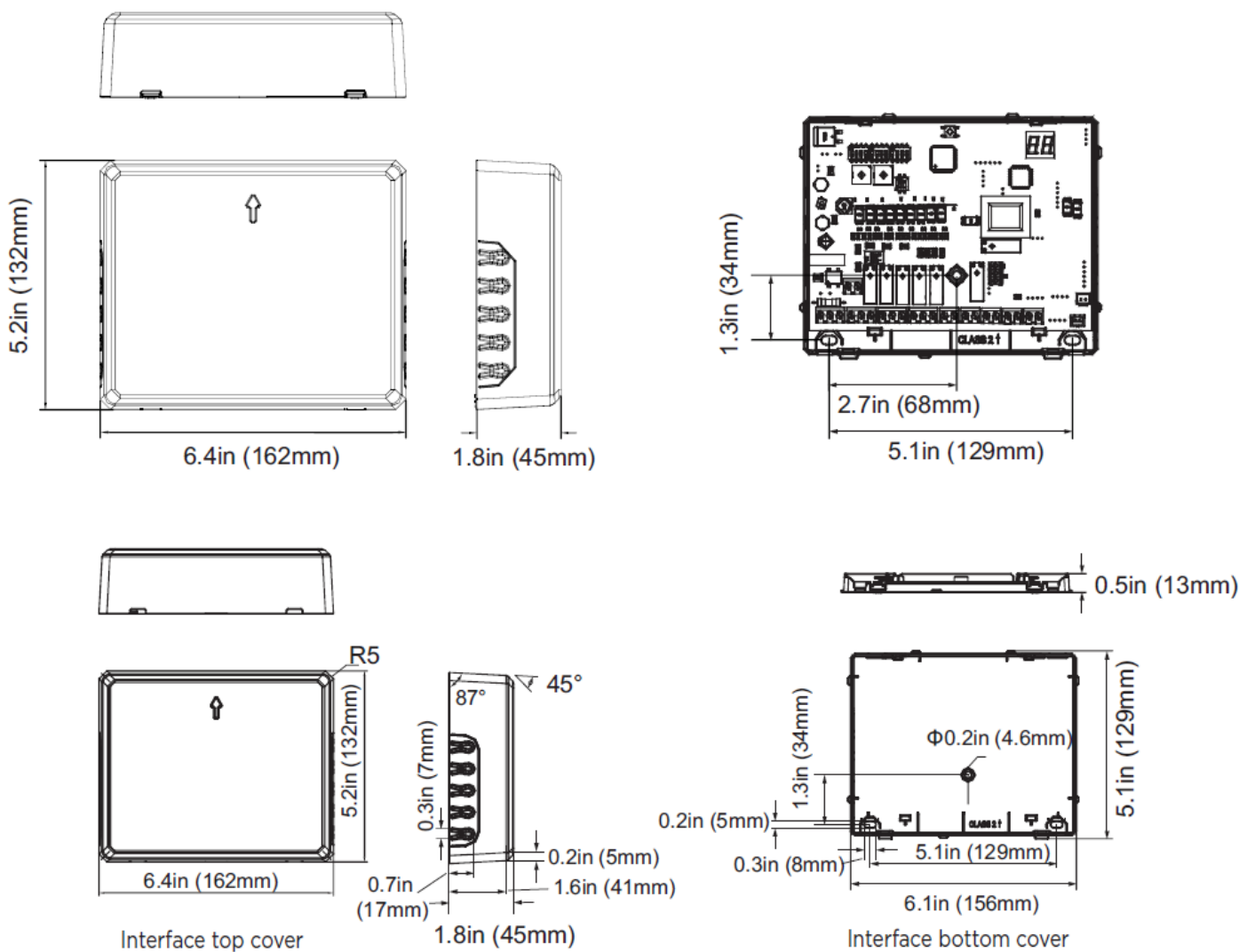
24V Crossover Interface Compatibility

Unit Type Single Zone (R454B)		
Heat Pump		
	D5CUHAH	D5CURAH
	●	●

Not Compatible	
Compatible	●

NOTE: Indoor compatibility is proper pairing with AHRI approved Fan Coils, and Furnaces from RES brand products (Carrier, Bryant, Payne/Weathermaker, and ICP)

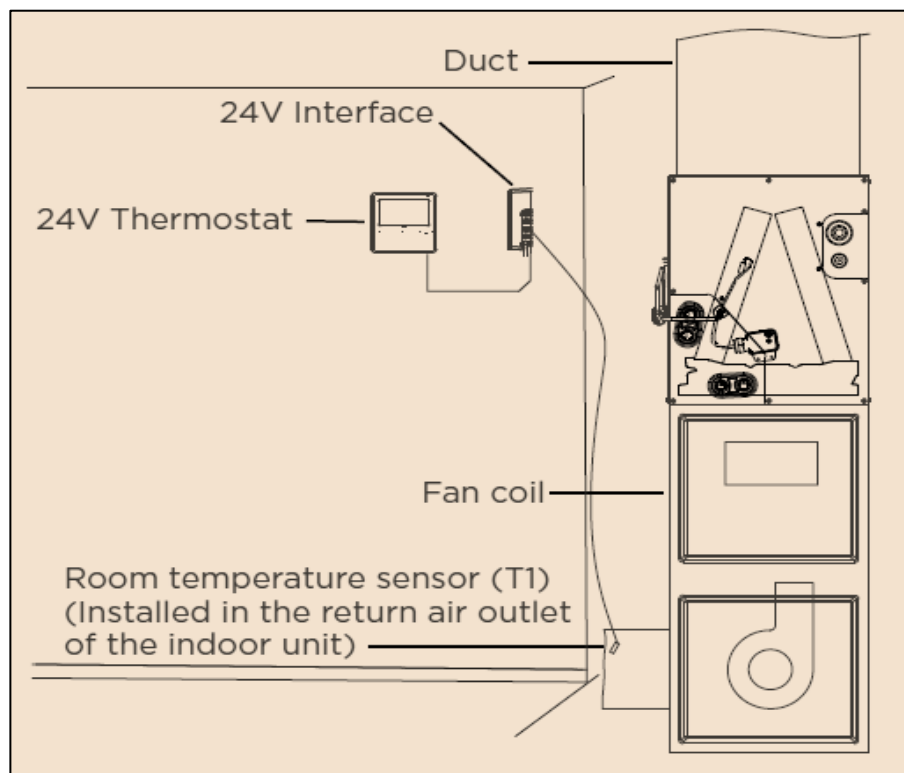
24V Crossover Interface Diameter



24V Crossover Interface Specifications

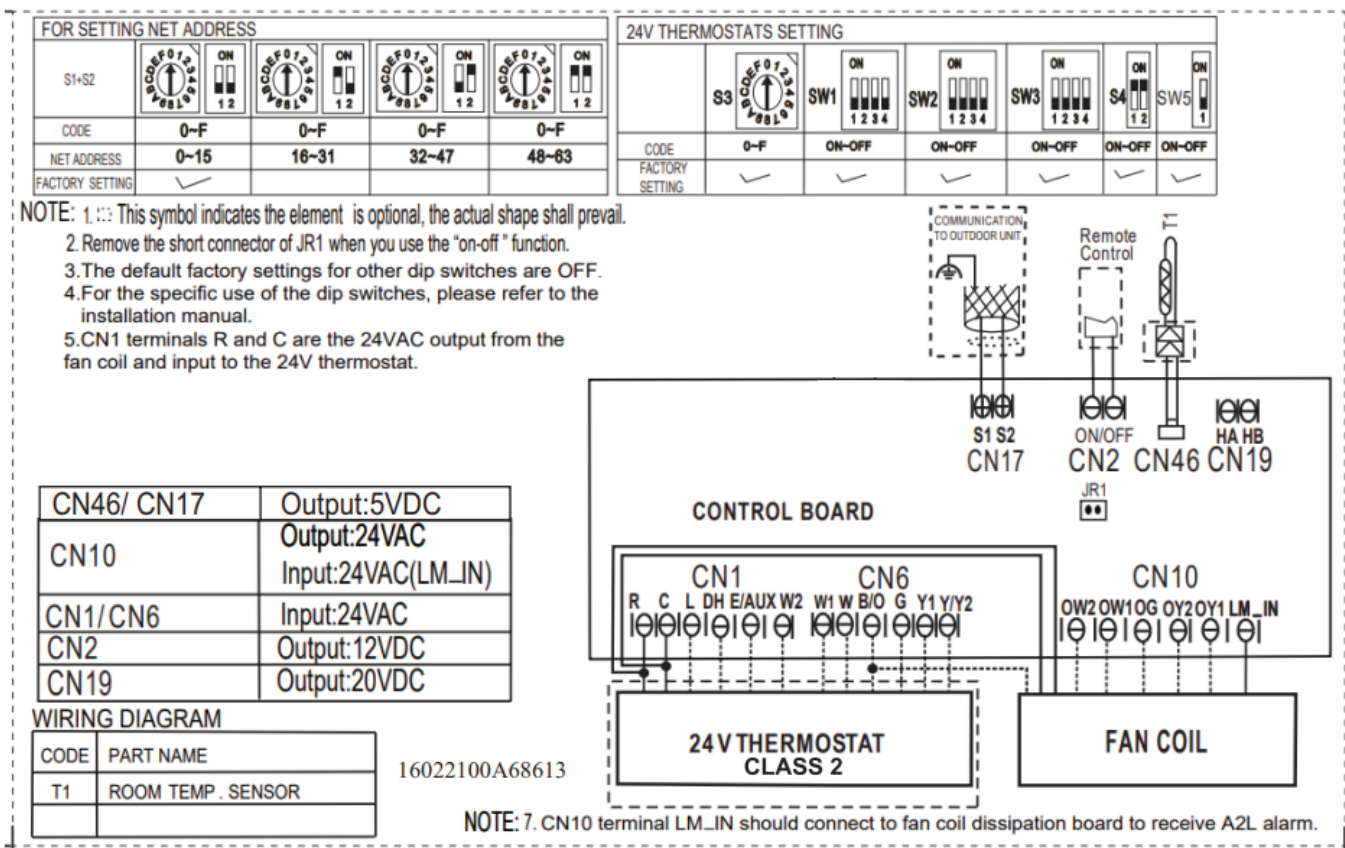
Temperature Limits of Mounting Surfaces (Ts)	-22-122°F
Power Source	24V AC~60Hz
Input Current	150mA
Protection Against Electric Shock	Class 2
Load Type	General Use (Signal Use)

24V Crossover Interface Installation (For Illustration)



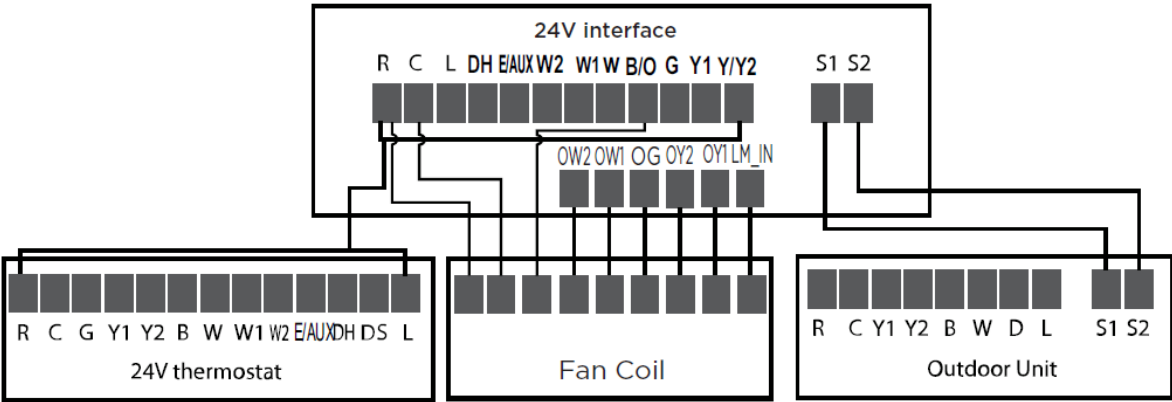
Indoor Installation Only: The interface should be mounted within 3-5 ft. on a suitable wall or structure from the Fan coil/ Furnace.

24V Crossover Interface Wiring Diagram



24V Crossover Interface Wiring Methods (Scenario 2)

NOTE: The equipment must have S1 & S2 communication between the 24V interface and the outdoor unit.



24V Crossover Interface Wiring Diameter

Outdoor to Interface Signal Wire S1 & S2)	Line Wire Diameter	16 AWG to *18 AWG - shielded wire
		Wire length up to max system piping length
24V Signal Wire	Line Wire Diameter	18 AWG

*18 AWG thermostat wire allowed for outdoor to interface signal wire for retrofitting applications where shielded wire cannot be installed.

24V Crossover Interface Controls Signal To The Outdoor Unit

CONNECTOR	USAGE
R	Provides 24VAC power from the indoor unit to the board.
C	The 24VAC common wire between the indoor unit and the board.
OW1	First stage of indoor unit command line from the board to the indoor unit (OW1-W1). If the indoor units that only have a W and do not have a W2, connect OW1 to the W of the indoor unit and make no connection with the OW2 signal wire (OW1-W).
OW2	Second stage of indoor unit command line from the board to the indoor unit (OW2-W2). OW2 cannot be ON unless OW1 is already ON.
OG	Connect the OG signal to G of the indoor unit (OG-G). If the indoor units that do not have a G, connect OG to the Y or Y1 of the indoor unit (OG-Y or OG-Y1).
OY1	For 1-speed configuration, connect the OY1 signal to Y of the indoor unit and make no connection with the OY2 signal wire (OY1-Y). For 2-speed configuration, connect the OY1 signal to Y1 of the indoor unit (OY1-Y1).
OY2	For 2-speed configuration, connect the OY2 signal to Y2 of the indoor unit (OY2-Y2).

**** See Installation Manual For More Information****