

KRCSH2018-02 BUTTON SENSOR KIT INSTALLATION INSTRUCTIONS

© 2020, 2024
DAIKIN COMFORT TECHNOLOGIES MANUFACTURING, L.P.
19001 Kermier Rd. Waller, TX 77484
www.daikincomfort.com
P/N: IOD-7131A Date: August 2024



WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT.

THIS EQUIPMENT IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.

CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE EQUIPMENT.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SUPERVISION, SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER SUPERVISION, INSTALLATION, ADJUSTMENT, SERVICING, MAINTENANCE OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER SUPERVISION OR TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



WARNING

HIGH VOLTAGE
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



WARNING

DO NOT BYPASS SAFETY DEVICES

Safety Precautions

- Only qualified personnel can carry out the installation work
- Make sure to turn off the power supply before starting the wiring work and do not turn on until the work is completed. Read the installation manual and wiring diagram of the indoor unit when carry out the work.
- Make sure to securely connect the connectors, unsecured connections may result in improper communication and/or malfunction.

Items in the packaging

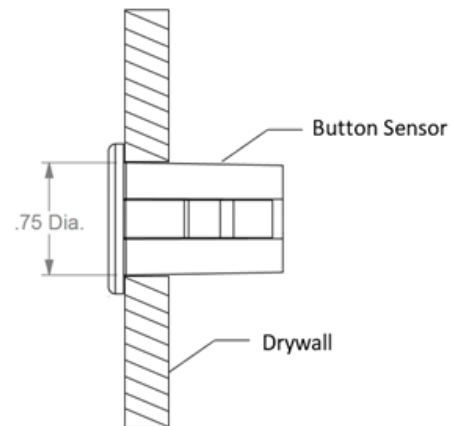
Item	Qty	Image
Button Sensor	1	
4-pin Plenum rated wiring cable (40 ft) 866-603-01	1	
2-pin 4 in. harness adaptor 866-603-03	1	
3-pin 4 in. harness adaptor 866-603-02	1	
5-pin 2 in. harness adaptor 866-603-07	1	
3-pin 2 in. harness adaptor 866-603-06	1	



Specification

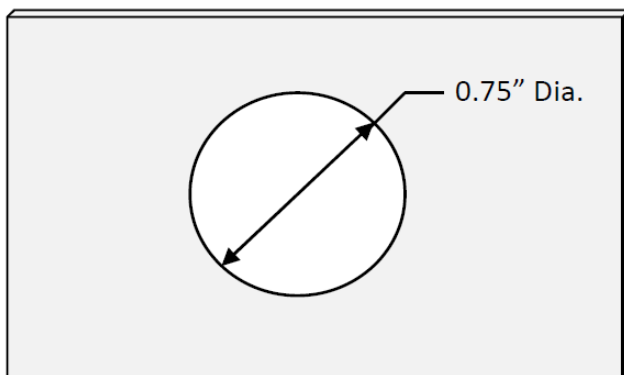
Model	KRCSH2018-02
Description	Button Sensor Kit
Weight	0.31 oz. (sensor only)
Thermistor	Rt = 20k ohms +/-1% @ 77° or 25°C B 25/50 = 3900 K +/-1% Dissipation Constant ~ 2.5 mW/°C
Self-Heat Compensator	Internal Series Resistor = 140 ohms +/- 1%
Housing	Gray ABS/PC UL94 V-0
Cover	Aluminum (Paintable) Tumble Finish
Operating Temperature	34 to 125°F (1.1 to 51.6°C)
Storage Temperature	-40 to 140°F (-40 to 60°C)
Humidity	0 to 95% RH non-condensing
Mounting Hole	3/4" Diameter
Compliance	RoHS & REACH Compliant

- Carefully pull the wiring cable through the hole and connect the wiring cable connector to the connector of the button sensor
- Plug the connectors of the cable and the button sensor together to make a "click" sound which indicates a successful connection.
- After connecting the wiring cable to the button sensor connector, carefully push the sensor firmly into the 3/4" hole until the sensor cover sits firmly on the wall.



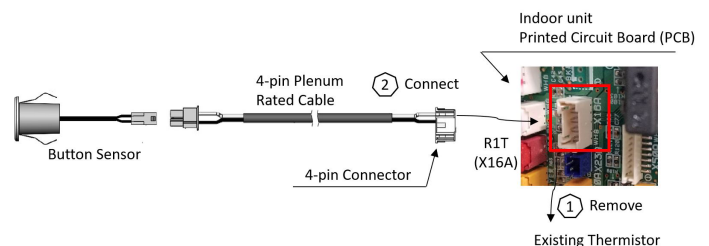
Mounting

- Selection of mounting location
The thermistor for temperature detection is inside the button sensor. Select the mounting location carefully considering the following factors:
 - Place where the average temperature of an air-conditioned room can be detected
 - Install where it is not exposed to direct sunlight
 - Install where it is not impacted by other heat sources
 - Install where it is not exposed to direct air discharge from the air conditioner
 - Install where it won't be touched by occupants accidentally
 - Install where it is not exposed to direct outdoor air infiltrated into the room when opening the door or window
 - Should not be mounted on exterior wall
 - Ensure the cavity behind the wall is insulated from temperature influences
- Drill a 3/4" hole at the sensor mounting location



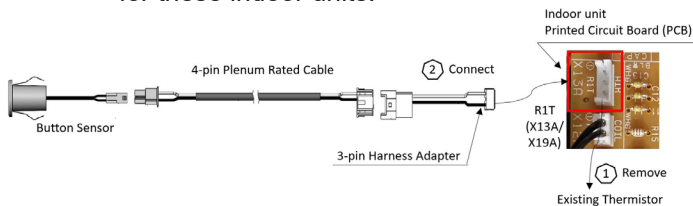
Wiring

- Before wiring to the indoor unit PCB, turn off power to the IDU.
- Unplug the existing return air thermistor from the connector on the PCB. The connector for the return air sensor varies for different indoor unit models.
- Verify the connector by checking the specific indoor unit model wiring diagram and make sure not to remove or unplug any other wiring from the indoor unit PCB.
- The connection of the wiring cable and/or harness adaptor between the button sensor and the indoor unit PCB is different for different indoor unit models.
 - For indoor units that use the 4-pin connector (FXEQ_PVJU, FXFQ_TVJU, FXMQ_PB, FXSQ_TAVJU, FXUQ_PVJU, FXZQ_TAVJU, FCQ_TAVJU, FBQ_PVJU, FFQ, FDMQ), use only the 4-pin wiring cable to connect between the button sensor and the indoor unit PCB. The other harness adapters are not needed for these indoor units.

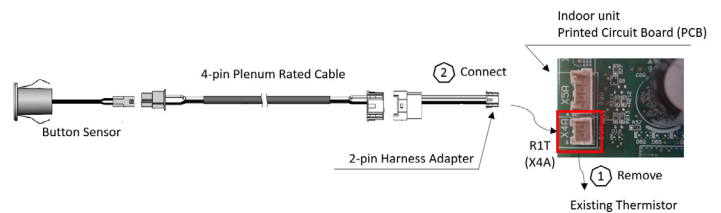


Indoor Unit Model	IDU connector for remote sensor	Connector Type	Sample Image
FXAQ_PVJU, FAQ_TAVJU	X19A	3-pin 866-603-02	
FXDQ_MVJU, FXHQ_MVJU, FXLQ_MVJU9, FXNQ_MVJU9, FXMQM, FHQ_PVJU	X13A		
FXEQ_PVJU, FXFQ_TVJU, FXMQ_PB, FXSQ_TAVJU, FXUQ_PVJU, FXZQ_TAVJU, FCQ_TAVJU, FBQ_PVJU, FFQ, FDMQ	X16A	4-pin 866-603-01	
FXTQ_TAVJU, CXTQ, FTQ_TAVJUD	X4A	2-pin 866-603-03	
FXMQ_TBVJU, FXSQ_TBVJU, FXUQ_PAVJU, FXZQ_TBVJU, FBQ_TBVJU	X16A	5-pin 866-603-07	
FXFQ_AAVJU, FCQ_AAVJU	X16A	3-pin 866-603-06	

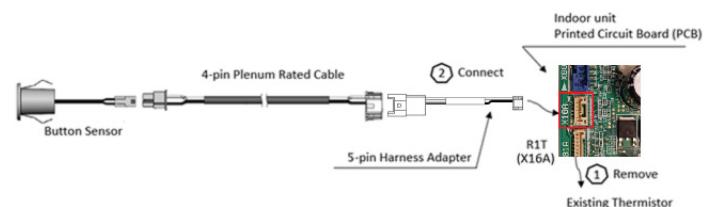
- ii. For indoor units that use the 3-pin connector (FXAQ_PVJU, FAQ_TAVJU, FXDQ_MVJU, FXHQ_MVJU, FXLQ_MVJU9, FXNQ_MVJU9, FXMQ_M, FHQ_PVJU), use the 4-pin wiring cable and the 3-pin harness adaptor to connect between the button sensor and the indoor unit PCB. The other harness adaptors are not needed for these indoor units.



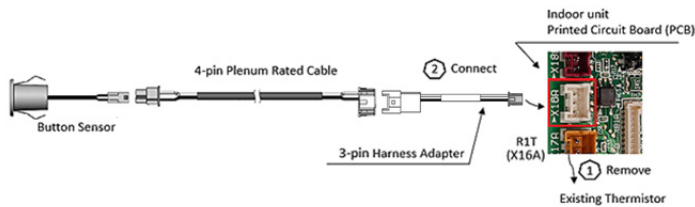
- iii. For indoor units that use the 2-pin connector (FXTQ_TAVJU, CXTQ, FTQ_TAVJUD), use the 4-pin wiring cable and the 2-pin harness adaptor to connect between the button sensor and the indoor unit PCB. The other harness adaptors are not needed for these indoor units.



- iv. For indoor units that use the 5-pin connector 866-603-07 (FXMQ_TBVJU, FXSQ_TBVJU, FXUQ_PAVJU, FXZQ_TBVJU, FBQ_TBVJU), use the 4-pin Plenum rated cable and the 5-pin harness adaptor to connect between the button sensor and the indoor unit PCB. The other harness adaptors are not needed for these indoor units.



- v. For indoor units that use the 3-pin connector 866-603-06 (FXFQ_AAVJU, FCQ_AAVJU), use the 4-pin Plenum rated cable and the 3-pin harness adaptor to connect between the button sensor and the indoor unit PCB. The other harness adaptors are not needed for these indoor units



- e. Lay and clamp the cable inside the indoor unit switch box the same way as the existing thermistor. Make sure to keep a distance of 3.5 ft (1 m) between the high voltage wiring and the low voltage wire to avoid sensor error.
- f. Once the wiring and button sensor installation is complete, apply power to the indoor unit and perform the operation test.

Operation test after mounting the sensor

Set field setting 10(20)-2-02 to sense the temperature from the button sensor. After the sensor is mounted and wired, conduct cooling and heating operation test to verify the indoor unit is operating correctly.

THIS PAGE INTENTIONALLY BLANK

THIS PAGE INTENTIONALLY BLANK

THIS PAGE INTENTIONALLY BLANK

CUSTOMER FEEDBACK

Daikin is very interested in all product comments.

Please fill out the feedback form on the following link:

<https://daikincomfort.com/contact-us>

You can also scan the QR code on the right to be directed to the feedback page.



Our continuing commitment to quality products may mean a change in specifications without notice.

© 2020, 2024 **DAIKIN COMFORT TECHNOLOGIES MANUFACTURING, L.P.**

19001 Kermier Rd. Waller, TX 77484

www.daikincomfort.com