universal douglas BT-FMS-A Controls Bluetooth Fixture Controller and Sensor Installation Guide

Contents

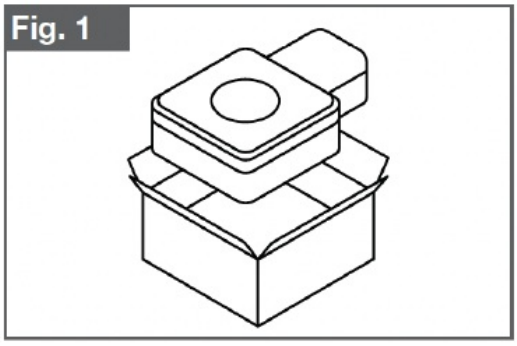
1 universal douglas BT-FMS-A Controls Bluetooth Fixture Controller and Sensor
2 Installation
3 Application Device
4 SAFETY WARNINGS | IMPORTANT SAFETY INFORMATION
5 Programmed Operation
6 Documents / Resources
6.1 References
7 Related Posts

universal douglas BT-FMS-A Controls Bluetooth Fixture Controller and Sensor

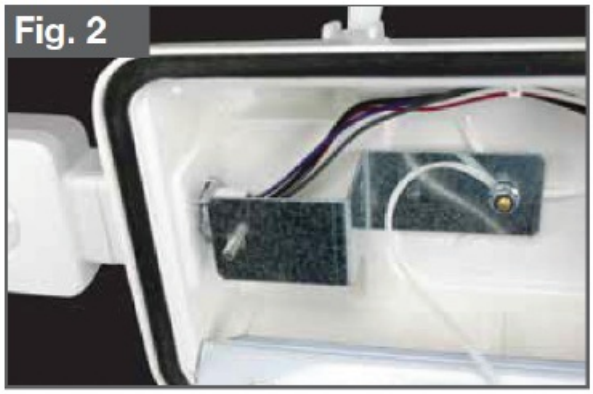
WARNING!
Before you begin. Read these instructions completely and carefully.

- Risk of Electric Shock. Disconnect power before servicing or installing controller.
- Risk of injury or damage. Controller will fall if not installed properly. Follow installation instructions, NEC and local codes and best trade knowledge.
- Risk of injury. Wear safety glasses and gloves during installation and servicing.
- Risk of injury or damage. Mount only to a mechanically sound surface; All fixtures must be connected to a grounded, three-wire supply; All electrical connections must be capped with UL listed wire connectors rated 600V or higher; If supply wires are located within three inches of the LED driver, use wire rated for at least 90°C; Consult qualified electrician before installing.

Installation

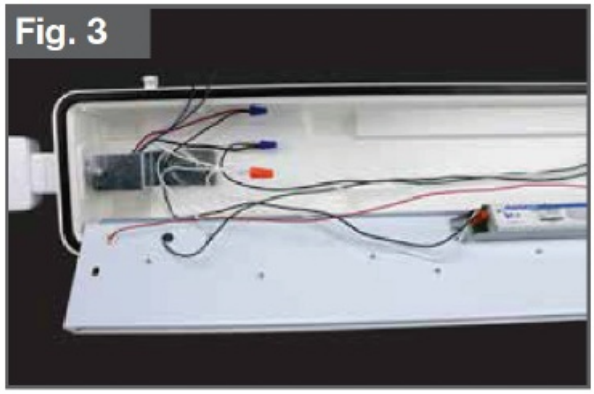


Step 1: Unpack & Inspect
Carefully remove sensor from packaging. Inspect for any defects in the housing, lens and conductors before proceeding. Confirm the product includes a gasket and locknut. Confirm product ordered matches the product received.
Note: part number FMS-DLC001 is equivalent to BT-FMS-A



Step 2: Mount Sensor

- Use a ½ inch knockout on a clean, smooth vertical surface
- Optional for luminaires having less than ½ inch overhang: Remove spacer and break away the threaded chase nipple extension if desired (see cut sheet for detail).
- Install gasket between sensor body (or spacer) and outside wall of fixture enclosure
- Install locknut and tighten securely



Step 3: Power Wiring

- Connect Black wire from sensor to incoming Line lead
- Connect White wire from sensor to the incoming Neutral lead, and to the white lead(s) of all LED drivers
- Connect Red wire from sensor to the black leads of all LED drivers
- Use suitably sized wire connectors rated 600VAC or higher, and conductors rated 60°C or higher

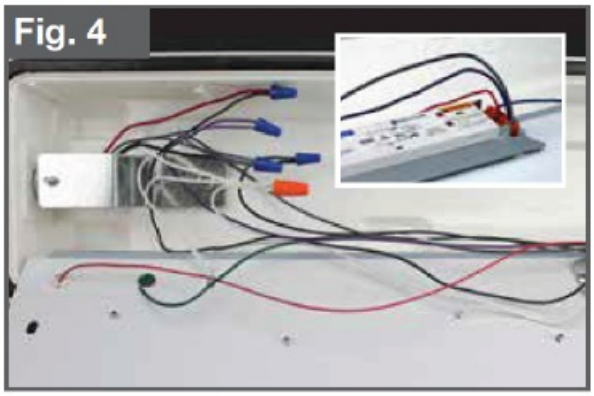
Application Device

- Once installed, device will provide basic operation (see Fig. 5 above).
- Obtain and thoroughly read BT-FMS-A Installation Manual if alternative operation is needed. (see Fig. 6 above)

** This wire/terminal may be gray on older products or in retrofit applications. The 2020 edition of the NEC prohibits field-connected control wires from being gray to avoid confusion with gray 277V neutral wires. Effective January 1, 2022, 0-10V signal wires will use purple and pink insulation.
Dialog® is a Registered Trademark of Douglas Lighting Controls. January 2017 – Subject to change without notice. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth® SIG, Inc. and any use of such marks is under license. Other trademarks and trade names are those of their respective owners. Rev.

SAFETY WARNINGS | IMPORTANT SAFETY INFORMATION

Follow information on label & instructions regarding installation near combustible materials, insulation, and building materials & in Dry or Wet locations. Do not install in areas exposed to combustible vapors or gases. This product must be installed by a person familiar with construction and operation of the product and the hazards involved, in accordance with the applicable installation. Be sure to ground the host luminaire or junction box to avoid potential electrical shock or other potential hazard. Use of accessory equipment not recommended by the manufacturer or installed inconsistent with instructions may cause an unsafe condition. Do not allow other items to come into contact with the product, as this may cause an unsafe condition. WARNING: This product may contain chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm. Thoroughly wash your hands after installing, servicing, handling, cleaning, or otherwise touching this product. This device complies with FCC CFR Title 47 Part 15, Class A requirements for EMI/RFI.



Step 4: Dimming Wires

- Connect Pink** wire from sensor to the gray or Dim(-) connections of all LED drivers
- Connect the Violet wire from sensor to the violet or Dim(+) connections of all LED drivers
- Use suitably sized wire connectors rated 600VAC or higher, and conductors rated 60°C or higher
- Close wiring compartment per manufacturer’s instructions

Default Operation – No Programming Needed For programming options see below

- Standalone fixture control
- Bi-Level control:

- Occupancy: Maximum intensity available from luminaire
- Vacancy: Minimum available intensity
- Timeout Delay: 20 minutes
- Daylighting control: Disabled

Programmed Operation

Programmable with an iOS Smartphone and app.
Please refer to the BT-FMS-A Installation Manual for details Options:

- Group control (with neighboring luminaires)
- Max & Min levels for bi-level control
- On/Off control (as opposed to bi-level)
- Timeout delay 15 sec to 90 min
- Daylight enable/disable and daylight setpoint

DOUGLAS LIGHTING CONTROLS
toll free: 1-877-873-2797 techsupport@universaldouglas.com
www.universaldouglas.com

UNIVERSAL LIGHTING TECHNOLOGIES,
INC. toll free: 1-800-225-5278
tes@universaldouglas.com
www.universaldouglas.com

Documents / Resources

	universal douglas BT-FMS-A Controls Bluetooth Fixture Controller and Sensor [pdf] Installation Guide BT-FMS-A Controls Bluetooth Fixture Controller and Sensor, BT-FMS-A, Controls Bluetooth Fixture Controller and Sensor, Bluetooth Fixture Controller and Sensor, Controller and Sensor, Sensor, Controller

References

- Universal Douglas

Manuals+.