Project	Catalog #	Туре	
Prepared by	Notes	Date	



# **Fifth Light**

## **FRS-DA**

Field Relay

#### **Typical Applications**

Office • Education • Healthcare • Hospitality • Retail • Industrial • Manufacturing • Outdoor

## **ℳ** Interactive Menu

- Ordering Information page 2
- Additional Resources page 2
- Wiring Diagrams page 3
- Product Warranty

## **Product Certification**







## **Product Features**







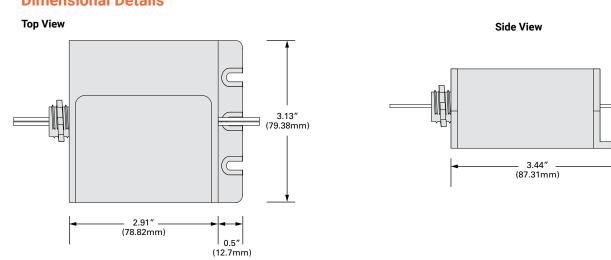




## **Top Product Features**

- · Provides ON/OFF control of lighting and/or receptacles
- Universal Voltage Input (120V 347V)
- · Rated for lighting and receptacle loads
- UL924 Listed

## **Dimensional Details**





1.53" (38.86mm)

Fifth Light Field Relay

## **Order Information**

The Field Relay is an accessory to the Fifth Light system and connects to the Fifth Light two-wire communication bus via Fifth Light lighting control panel.

#### **Catalog Number**

Catalog Number	Description	Input Voltage	Current
FRS-DA	Single pole, single throw, 20A latching relay	120/277/347V	20A

## **Product Specifications**

#### **Key Features**

- Connects to the Fifth Light two-wire communication bus for On/Off control of lighting loads or receptacles
- Universal Voltage Input (120V 347V)
- Designed with safety in mind, a loss of power on the Fifth Light two-wire communication bus will automatically set the relay to the closed (ON) position
- · Rated for lighting and receptacle loads

#### Mechanical

**Dimensions:** 1.53"H x 3.13"W x 3.44"L (38.86mm x 79.40mm x 87.38mm) **Mounting:** 

· Fixture or junction box 1/2" knockout

#### **Enivironment:**

• Temperature: 32° F to 158° F (0°C to 70°C). For indoor use only.

· Relative Humidity: 10% to 90% (non-condensing).

#### **Electrical**

#### **Relay Output:**

• Input Voltage: 120-347 VAC +/- 10%

Maximum Load: 20 AmpsInput Frequency: 50/60 Hz

#### **Control Specification:**

 Communication Interface: Fifth Light two-wire communication bus (topology, polarity free)

· Current Draw: 3.75mA

· Number of cycles before recharge: 4

Charging time: 20 seconds/cycleLast state upon full depletion: On

Note: The relay always maintains enough internal energy to allow users to turn the light on.

#### Wiring:

- · Relay: 12 AWG stranded THHN non-polarized pair
- 18 AWG stranded PTFE plenum rated non-polarized pair

Note: The Field Relay is designed for low frequency switching applications, i.e. less than 4 cycles in 2 minutes

#### Standards/Ratings

- cULus Listed Energy Management Equipment (UL916)
- · Manufactured in an ISO 9001 certified factory
- · Meets ASHRAE Standard 90.1 requirements
- · Meets IECC 2015 requirements
- · Meets CEC Title 24 requirements

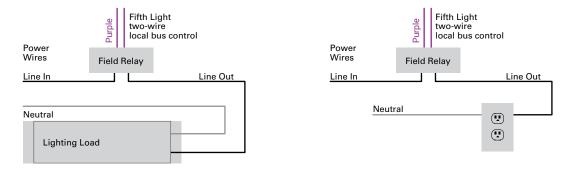
#### Warranty

Five year warranty standard



Fifth Light **Field Relay** 

## **Wiring Diagram**



Note: Install in accordance with all applicable National and local electrical and building codes.

Note: Specifications subject to change without notice.

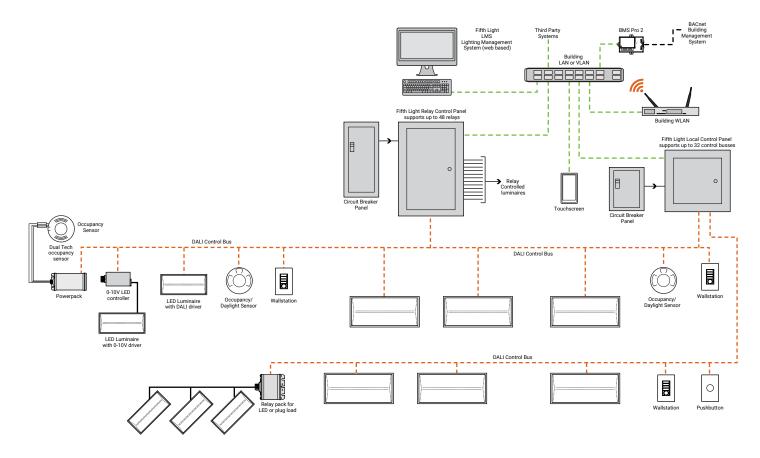
### **Overview**

Cooper Lighting Solutions Field Relay provides ON/OFF control and network connectivity in order to conserve energy and effectively manage the lighting system. The Field Relay uses advanced switching technology specifically designed to handle the large in-rush currents and inductive loads found in lighting applications.

## **System Architecture**

This diagram illustrates the main components of the Fifth Light system. The DALI wallstations, DALI multi-sensors, DALI field relay, DALI dimming module, DALI DAC and DALI dimmable drivers/ballasts communicate with the Lighting Control Panel over the DALI bus while the touchscreen communicates with the Central Manager via ethernet.

Complete Fifth Light system





Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800

www.cooperlighting.com