Functional Devices, Inc.
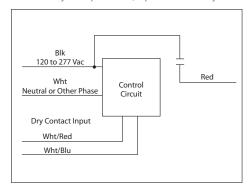101 Commerce Drive
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Functional Devices, Inc.™
Lighting Controls
RIB®

CLC212

Enclosed Relay 10 Amp SPST-N/O, Separated Class 2 Dry Contact Input, 120-277 Vac Power

LIGHT CONTROLLER

Blk
120 to 277 Vac

Wht
Neutral or Other Phase

Control Circuit

Red

Dry Contact Input

Wht/Red

Wht/Blu

Specifications

# Relays & Contact Type:	One (1) SPST-N/O Continuous Duty Coil
Expected Relay Life:	10 million cycles minimum mechanical
Operating Temperature:	-30 to 140° F
Relay Status:	LED On = Activated
Dimensions:	1.70˝ x 2.80˝ x 1.50˝ with .50˝ NPT Nipple
Wires:	16˝, 600V Rated
Approvals:	UL Listed, UL916, C-UL, CE, RoHS
Housing Rating:	UL Accepted for Use in Plenum, NEMA 1
Gold Flash:	No
Override Switch:	No

Contact Ratings:
10 Amp General Use @ 277 Vac
1/2 HP @ 125 Vac
1 HP @ 250 Vac
1/4 HP @ 277 Vac
470 VA Pilot Duty @ 125 Vac
770 VA Pilot Duty @ 250 Vac

Power Usage:
50 mA @ 240 Vac Max.

Notes:
• Dry Contact Input Operation: Close Wht/Red wire to Wht/Blu wire to activate relay. Normally Open relay contact will close. If more than one CLC212 shares a single dry contact input, Wht/Blu must be common.
• Order Normally Closed contact by adding "-NC" to end of model number for opposite operation. Normally Closed contact will open when Wht/Red wire is closed to Wht/Blu wire.
• Switch must be Form C or N/C.
• Suggested switches: Functional Devices models ACLCMAGSM or ACLCMAGDJ

New Construction Applications

• No stepdown transformer necessary

• Operates on any device from 120 Vac to 277 Vac

• Light 18 AWG wire used to control relay, instead of armored cable, but any size may be used

• Closet light turns on when door is open

• Customer needs to purchase Form C or N/C* door switch.

* A Normally Closed (N/C) door switch is closed when no outside forces are acting upon it. When used in this application, the switch is open when the door is closed, and the switch closes when the door is opened, activating the controller to turn the light on.
(Door switch not provided, see notes for details.)

Class 2 Wiring
CLC212
Light Fixture Junction Box
120 Vac Power
Closet Light

Form C or N/C Dry Contact Door Switch
(Not included)

Class 2 Wiring
Line
Neutral
CLC212
Light Fixture Junction Box
Blk
Wht
Red

Closet Door