BMWC-L104S-D is a 20A relay that provides wireless control of multiple light fixtures. Using dry contact output (normal open/normal close), it can also send signals to third-party systems for integration, such as HVAC. The BMWC-L104S-D-1-BLE-KL-B1 model provides an RJ45 port for use with the BlueMesh Sensor family of products.

## FEATURES

- Bluetooth wireless control of luminaries
- Dry contact output, 3A max pass through current
- COMM/NC for normal close, COMM/NO for normal open
- ON/OFF and 0-10V analog dimming control, 48.5mA Sink
- 1HP motor rated
- Plenum Rated
- RJ45 port for use with BlueMesh Sensors (BMWC-L104S-D)

## TECHNICAL DATA

Input Voltage: AC120-277V
Frequency: 50/60Hz
Input Current: 20A Max
Input Power: 2400W Max @ 120V, 5540W Max @ 277V
Output Voltage: AC120-277V
Output Current: 20A Max
Output Power: 2400W Max @ 120V, 5540W Max @ 277V
Dimming: Class 2, 0-10V DC 10mA Max
Sinking Current: 48.5mA Max
Dry Contact Output: Class 2 output, 60Vdc max, 100W max
Bluetooth Transmit: 200ft Max
Radio Frequency: 2.4GHz ± 75MHz
Bluetooth Version: 5.0
Housing Material: UL 94-5VA
Indoor/Outdoor Use: Indoor Use Only
Operating Temperature: -30°C to 55°C, -22°F to 131°F
Storage Temperature: -30°C to 85°C, -22°F to 185°F
IP Rating: IP20
Color: White
Warranty: 5 year warranty
Compliance: UL8750, UL2043, RoHS

## PHYSICAL DIMENSIONS

Unit:inch/mm



3.98" / 101mm

2.79" / 70.8mm

1.18" / 29.9mm

BM-RJ45-C Interface
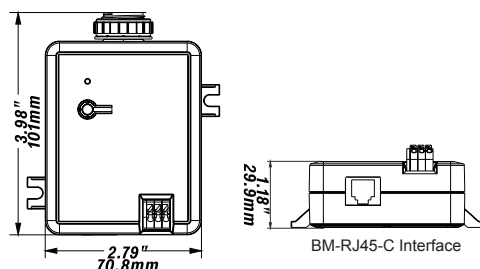
1/2inch US standard knockout

| Socket Mounting Dimensions | | |
|---|---|---|
| Size | T.P.I | Major Dia. |
| | inch | inch |
| R1/2 | 14 | 0.825 |

## ORDERING INFORMATION

| MODEL | DESCRIPTION |
|---|---|
| BMWC-L104S-D-1-BLE-KL | Zone Controller 120-277V 20A,Dry Contact Version |
| BMWC-L104S-1-BLE-KL | Bluetooth Zone Controller 120-277V, 20A with wire connections |

## Ordering Information - Accessories

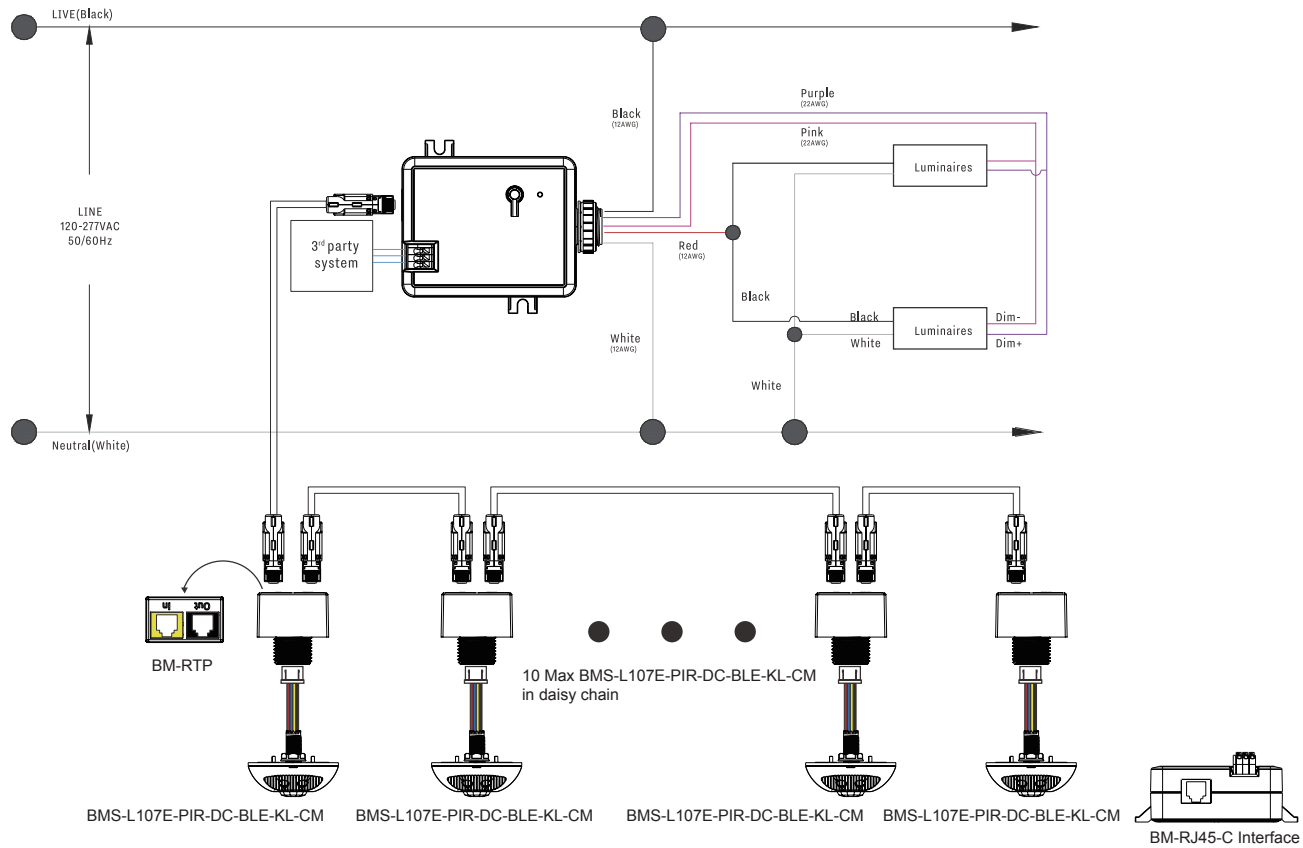| Model | Description | Works with | Mounting Height Range |
|---|---|---|---|
| BMS-L107E-PIR-DC-BLE-KL-CM | Low-Voltage Ceiling Dual-Tech Sensor | | 8-12' |
| BMS-L107E-PIR-DC-BLE-KL-CWM | Low-Voltage Wall/Ceiling Dual-Tech Sensor | BMWC-L104S-D-1-BLE-KL-B1 | Varies |
| BM-RTP | Converter from RJ45 to PH2.0 connector (supports daisy chaining of devices) | | N/A |

## WIRING DIAGRAM
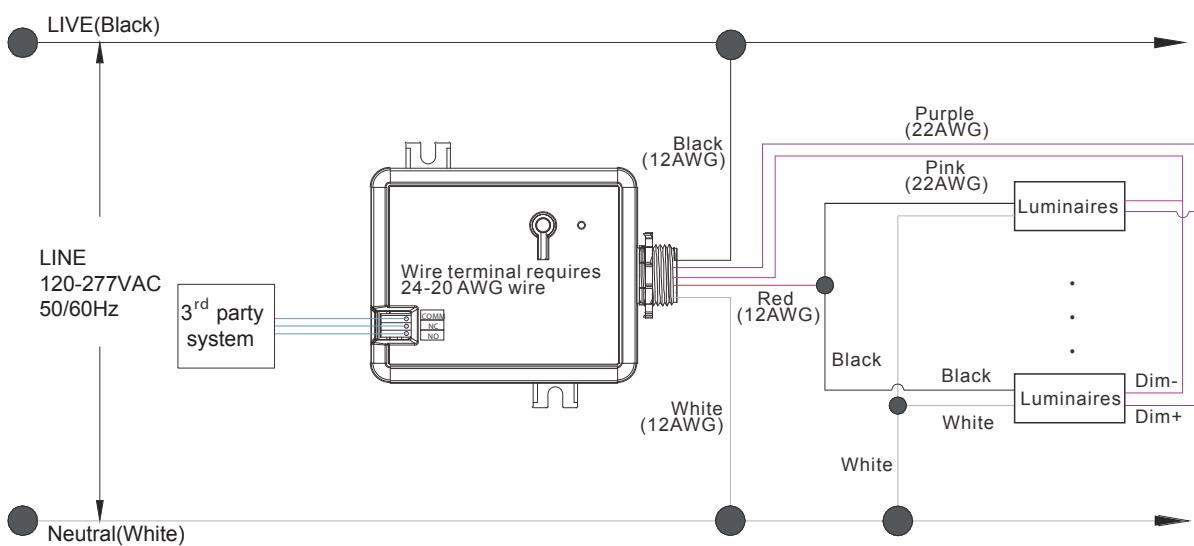


**\*Please note:**
 the "COMM/NC" is for normal close dry contact. "COMM/NO" is for normal open dry contact output.

| Dry contact | Controller is triggered (Turned on, relay is connected) | Controller is not triggered (Turned off, relay is not connected) |
|---|---|---|
| Normal close | Disconnected | Connected |
| Normal open | Connected | Disconnected |

BMWC-L104S-D-1-BLE-KL-B1

Ref#: 20250716



LIVE(Black)

Purple
(22AWG)

Black
(12AWG)

Pink
(22AWG)

Luminaires

LINE
120-277VAC
50/60Hz

3rd party
system

Red
(12AWG)

Black

Black

Dim-

Luminaires

White

White

Dim+

White
(12AWG)

White

Neutral(White)

BM-RTP

10 Max BMS-L107E-PIR-DC-BLE-KL-CM
in daisy chain

BMS-L107E-PIR-DC-BLE-KL-CM    BMS-L107E-PIR-DC-BLE-KL-CM    BMS-L107E-PIR-DC-BLE-KL-CM    BMS-L107E-PIR-DC-BLE-KL-CM

BM-RJ45-C Interface

# WARRANTY

Five year limited warranty.

Specifications subject to change without notice.