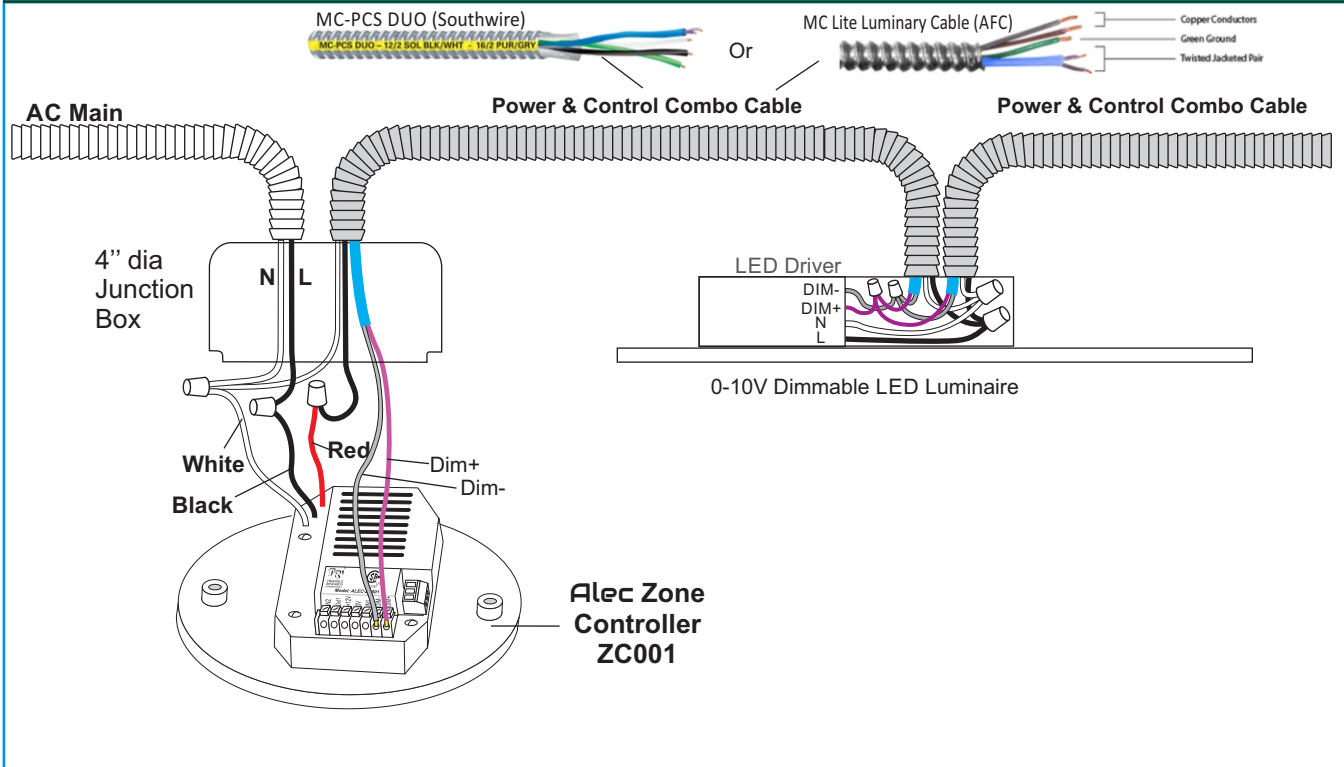# Recommended Wiring: To Luminaires
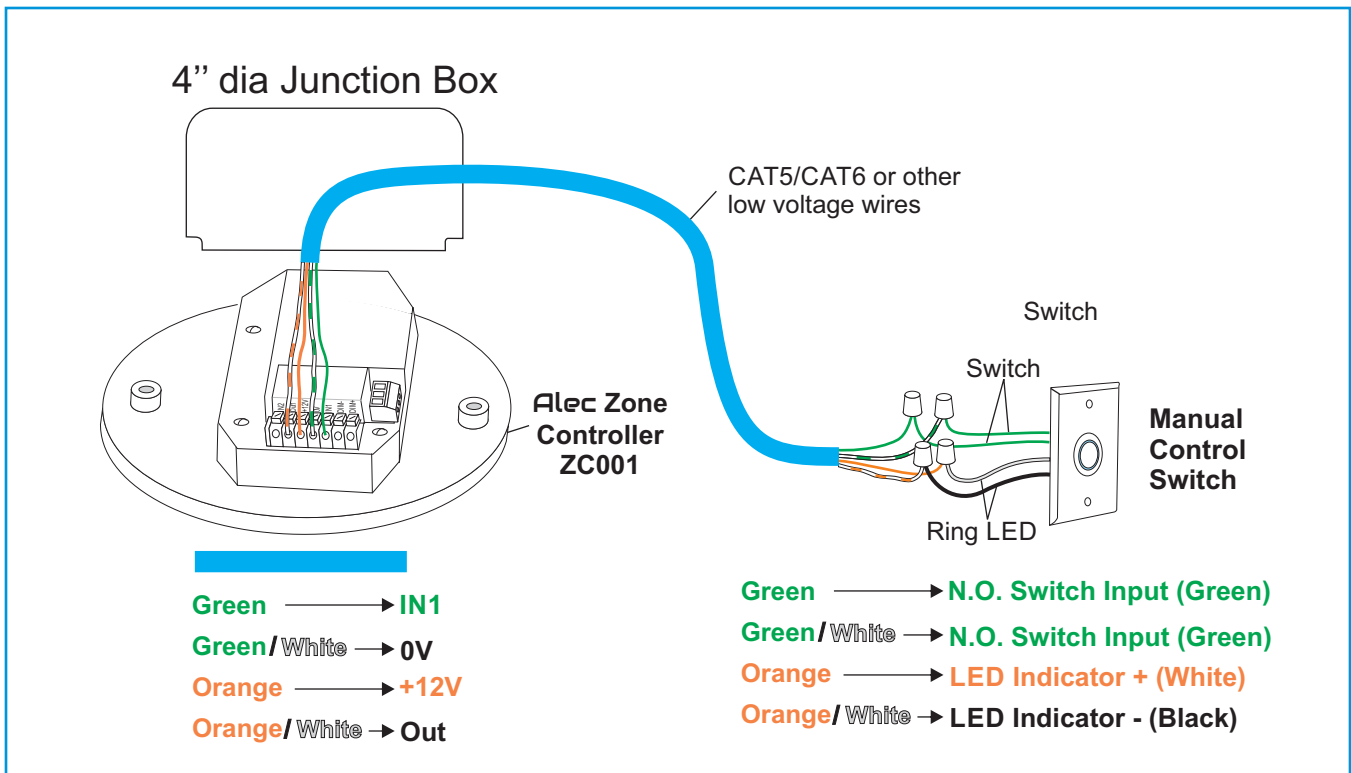
Option 1. Use Metal-Clad Power & Control Combo cable

MC-PCS DUO (Southwire)

MC-PCS DUO – 12/2 SOL BLK/WHT – 16/2 PUR/GRY

Or

MC Lite Luminary Cable (AFC)

Copper Conductors
Green Ground
Twisted Jacketed Pair

Power & Control Combo Cable

Power & Control Combo Cable

AC Main

4" dia Junction Box

N L

LED Driver

DIM-
DIM+
N
L

0-10V Dimmable LED Luminaire

White

Red

Dim+

Black

Dim-

Alec Zone Controller ZC001

Option 2. Use Separate Power Cable & Low Voltage Control Cable

Parallel Power & Dimming Cables to Other Fixtures

AC Main

Class 1 Power Cable to Fixtures

Class 2 Dimming Cable to Fixtures
(CMP or CMR rated)

4" dia Junction Box

N L

LED Driver

DIM-
DIM+
N
L

0-10V Dimmable LED Luminaire

White

Red

Dim+

Black

Dim-

Alec Zone Controller ZC001
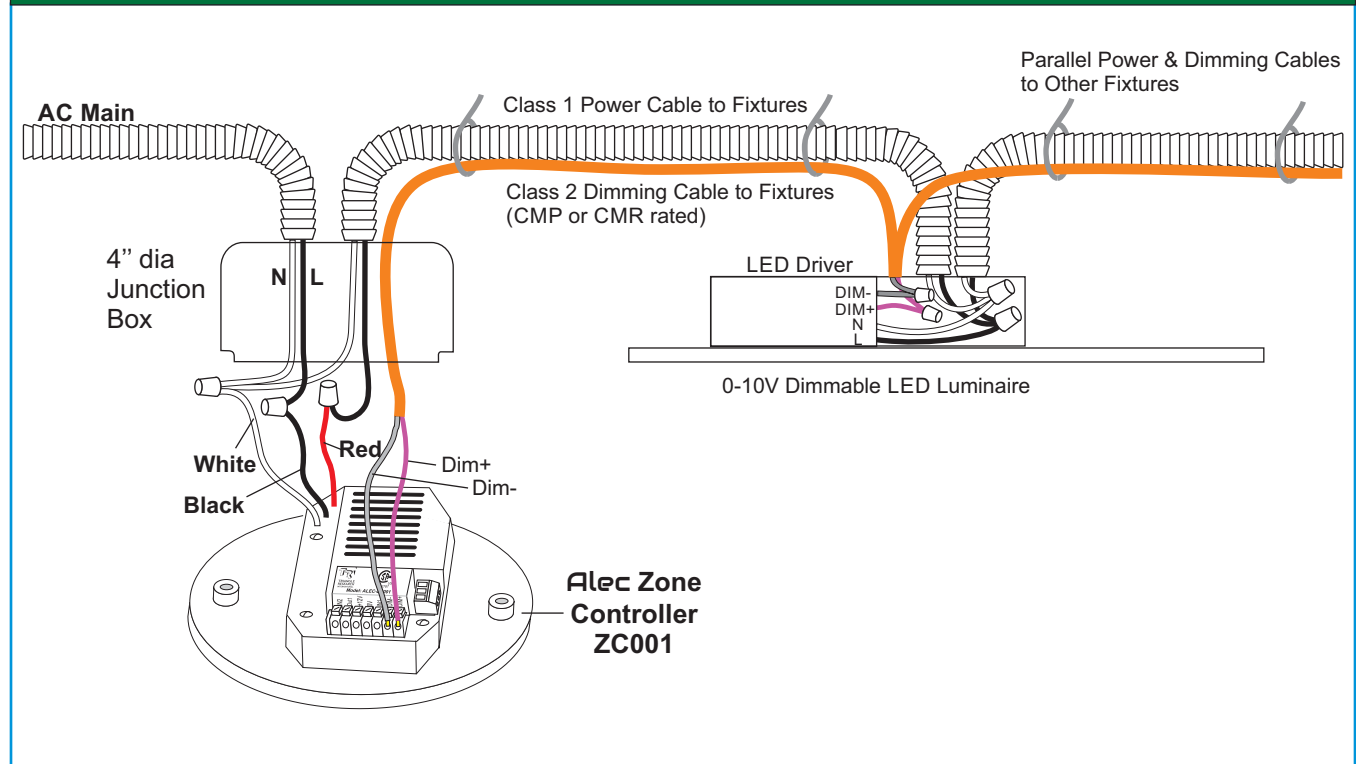
Recommended Wiring: To Push Button

4" dia Junction Box

CAT5/CAT6 or other low voltage wires

Alec Zone Controller ZC001

Switch

Switch

Ring LED

Manual Control Switch

Green ──────→ IN1

Green / White ──→ 0V

Orange ──────→ +12V

Orange / White ──→ Out

Green ──────→ N.O. Switch Input (Green)

Green / White ──→ N.O. Switch Input (Green)

Orange ──────→ LED Indicator + (White)

Orange / White ──→ LED Indicator - (Black)

Recommended Wiring: To RS485

4" dia Junction Box

CAT5 or CAT6 Daisy-chain to Gateway

Note: Use a different color outer jacket from the other CAT5 or CAT6 cables in use.

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Orange / White ──→ RS485+

Orange ──────→ RS485-

Blue ──────→ COM

Recommended Wiring: To Single Auxiliary Motion Sensor

4" dia Junction Box

White → IN2

Red → 12V

Black → 0V

Alec Zone Controller ZC001

Note: This wiring shares the 12V and 0V terminals with the wiring to Push Button
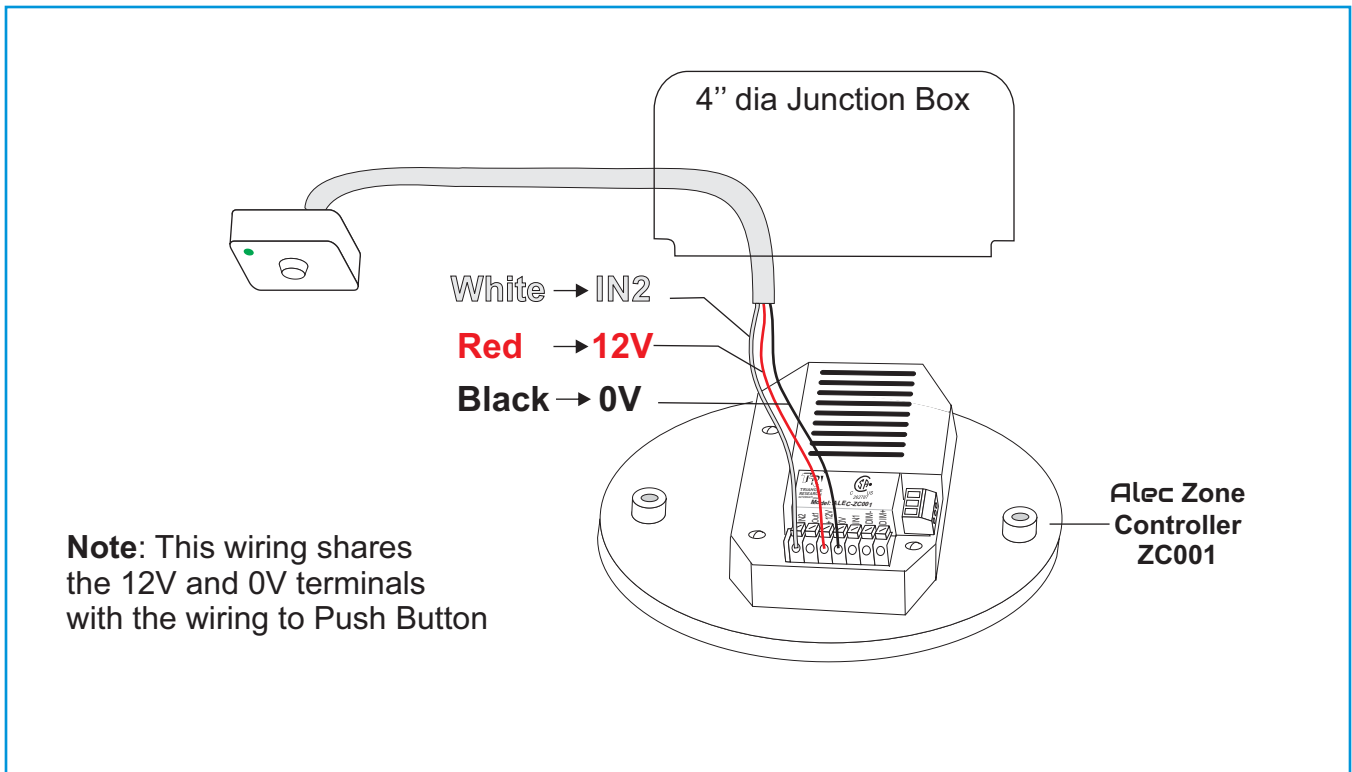
Recommended Wiring: To Multiple Auxiliary Motion Sensors

4" dia Junction Box

Splice

White → IN2

Red → 12V

Black → 0V

Alec Zone Controller ZC001

Note: This wiring shares the 12V and 0V terminals with the wiring to Push Button