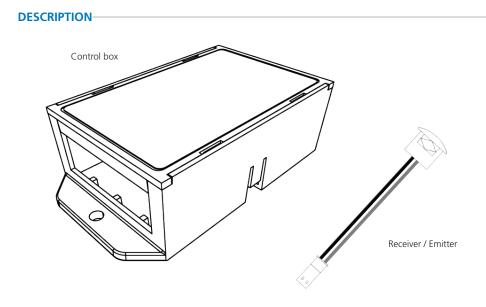


(US version)





ACCESSORIES



JAMB CAP KIT (20.0045)



- $\hfill\square$ Shut off all power going to header before attempting any wiring procedures.
 - Maintain a clean and safe environment when working in public areas.
 - Constantly be aware of pedestrian traffic around the door area.
- □ Always stop pedestrian traffic through the doorway when performing tests that may result in unexpected reactions by the door.
- Always check placement of all wiring before powering up to ensure that moving door parts will not catch any wires and cause damage to equipment.
- □ Ensure compliance with all applicable safety standards (i.e. ANSI A156.10) upon completion of installation.

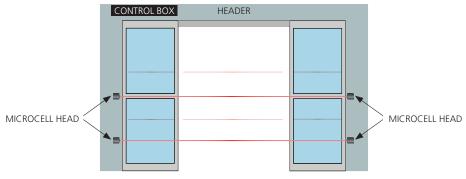
MECHANICAL INSTALLATION

SINGLE BEAM

- Select a mounting height and mark it on both sides of the door. Ensure it is at least 1' above the floor.
- 2. Drill a 1/2" (13mm) hole in each side of the door frame.
- **3.** Slide the heads and the cables into the vertical jambs.
- Install the control box in the header and secure using double-sided, foam tape.
- **5.** Connect the wires (see diagram on following page).

DOUBLE BEAM

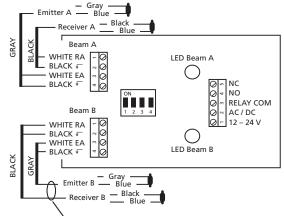
- Select two mounting heights and mark each on both sides of the door. Ensure the beams are at least 1' apart, and that the lower beam is at least 1' above the floor.
- 2. Drill two 1/2" (13mm) hole in each side of the door frame, at least 1' apart.
- **3.** Slide the heads and the cables into the vertical jambs. Ensure that you reverse the emitters and receivers for each beam. Emitter A should be on the same side of the door as Receiver B, and Emitter B should be on the same side as Receiver A. *See image below.*
- **4.** Install the control box in the header and secure using double-sided, foam tape.
- 5. Connect the wires (see diagram below).



Microcell beam locations are for illustration purposes only

ELECTRICAL INSTALLATION

- Remove the safety beam control box cover to access the connectors and DIP switches.
- Connect the MICROCELL cables as shown below.
 BLACK cables = receivers ("R") GRAY cables = emitters ("E")



Gray and Black cables formerly Yellow and Green respectively.

ELECTRICAL INSTALLATION (cont.)

3. Set the operation of the safety beams with the dipswitches.

| DIPSWITCH | ON | OFF |
|-----------|--|--|
| #1 | Double beams | Single beams |
| #2 | Normally Closed - relay de-energizes upon detection | Normally Open - relay energizes upon detection |
| #3 | Standard operating range (15') | Reduced operation range (10') |
| #4 | Test | Default |

NOTE 1: When using a single set of beams, connect beams to the Beam A connector and set dipswitch #1 to the OFF position.

- 4. Connect 12 24 V AC ±10% or 12 24 V DC -5% / +30% to terminals 1 and 2 of the control connector.
- 5. Connect the desired relay output to the door control.
- 6. Install the control box cover.

TROUBLESHOOTING

The control box is equipped with two LEDs to aid in troubleshooting. Each LED corresponds to one beam.

- Both LEDs off = beams are uninterrupted --> No action needed.
- One/Both LEDs are on = Corresponding beam(s) is interrupted --> No action needed.
- Neither LED will illuminate = Power problem --> Verify power supply with a voltmeter.

Visible LEDs are useful as indicators for head alignment during installation.

| LED A is continuously illuminated | Improper wiring | Verify connection between emitter and receiver. Verify dipswitch 1 is in OFF position, if sing a single beam. |
|--|---------------------------------|---|
| LED A and/or LED B is/are continuously illuminated | Improper wiring | Verify connection between emitter and receiver. Verify dipswitch positions. <i>Dual-beam applications:</i> Ensure wiring for emitter A corresponds to receiver A (likewise for set B). |
| | Poor alignment | Verify alignment of emitter and receiver (maximum allowed misalignment is 8°). |
| | | Check distance of beam separation between emitter and receiver (maximum allowed distance is 15'). |
| | | Dual-beam applications: |
| | | Ensure a minimum of 1' separation between upper and lower beams. |
| | | Ensure emitter and receiver sets alternate in pattern. |
| | Incorrect power supply | Verify power supply with a voltmeter. |
| LEDs functioning, but | Improper wiring of output relay | Verify wiring of output relay. |
| door does not respond | | Verify dipswitch 2 is properly set. |

NOTE 2: If the MICROCELL is connected to a safety circuit of an automatic door, it is recommended to place dipswitch #2 to the ON position and use the NC circuit (terminal 3 and 5).

TECHNICAL SPECIFICATIONS

| CHNICAL SPECIFICATIONS | | |
|--|---|--|
| Technology: | Microprocessed, active infrared | |
| Mounting Height: | minimum 1' above floor | |
| Distance between pairs of beams: | minimum 1' (beams must be crossed) | |
| Distance between heads and plane of doors: | 1″ | |
| Range of detection: | minimum 3' / maximum 15' | |
| Alignment tolerance: | 8° | |
| Detection method: | presence (by beam interruption) | |
| Response time: | ≤ 40 ms | |
| Hold time: | 300 ms | |
| Power supply: | 12 – 24 VAC ±10% 12 – 24 VDC -5% / 30% | |
| Consumption: | < 100 mA | |
| Output contact rating: | 1 relay (NC/NO contacts) Max. contact voltage: 50 VAC/VDC Max. contact current: 1 A (resistive) Max. switching power: 30 W (DC) / 60 VA (AC) | |
| Displays: | 2 red LEDs (illuminates when barrier is interrupted) | |
| Adjustments: | DIP switches | |
| Operating temperature: | -30 – 131 °F | |
| Immunty: Ambient light Incandescent light Electromagnetic compatibility | 75,000 Lux 25,000 Lux with an angle of 8° in accordance with 89/336/EEC (CE) | |
| Protection: | IP65 / NEMA 4 beam heads | |
| Dimensions: Heads Control board | body: <15/32" (L embed) × 15/32" Ø harness: Ø 5/8" 3" (W) × 2" (D) × 1" (H) | |
| Cable length: | 18' (D) or 32' (L) – specify when ordering | |
| Material: | ABS | |
| Housing color: | transparent | |
| Cable color: | emitter: gray (formerly yellow) receiver: black (formerly green) | |
| Head color: | emitter: gray and blue (formerly yellow and black) receiver: black and blue (formerly green and black) | |

Specifications are subject to change without prior notice. All values measured in specific conditions.

