

IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

When using electrical equipment, basic safety precautions should always be followed including the following:

- **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure that the electrical wiring conforms to the National Electrical Code NEC® and local regulations if applicable.
- Do not mount near gas or electrical heaters.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.

SAVE THESE INSTRUCTIONS!

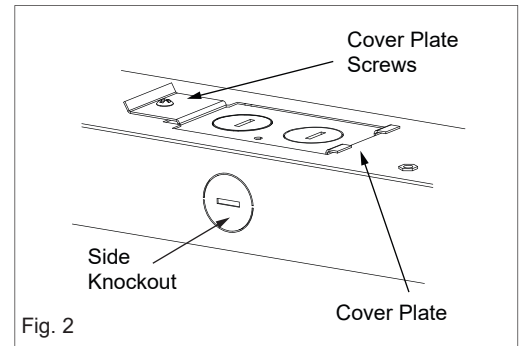
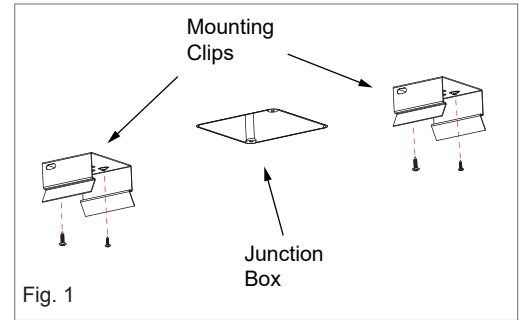
Technical Support ■ (623) 580-8943 ■ technicalsupport@barronltg.com

Important Notes

1. Battery Backup equipped fixtures cannot be electrically linked to other fixtures using the linkable accessory wiring harness.
2. Motion control switched and linkable accessory wiring harness have load limitations. Make the installed fixtures do not exceed electrical limits.
3. Linkable accessory TSL-L4 is designed for joining TSL-4 to TSL-4. Linkable accessory TSL-L8 is designed for joining TSL-8 to TSL-8, no other uses are recommended.
4. Do not electrically double feed linked units. Only one power connection per run.

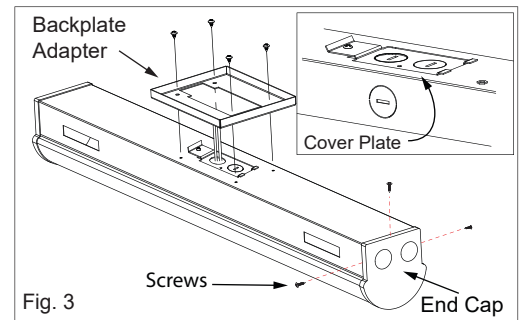
Surface Mount - Back Feed

1. Affix mounting clips to desired surface per **Surface Mount Table** with appropriate hardware (Fig. 1).
2. Remove cover plate screw, disengage and remove cover plate (Fig. 2).
3. Pull connection wiring out of fixture.
4. Pass wires through cover plate and re-install if required by engaging and sliding into place, then secure with the cover plate screw.
5. If backplate adapter is to be installed, pass wiring through backplate adapter then align backplate adapter over the fixture housing and secure with the four provided screws (Fig. 3).
6. Make electrical connections per **Wiring Diagram**.
7. Position fixture over mounting clips and snap into mounting clips.
8. Check that mounting clips securely lock into mounting slots and fixture is secure (Fig. 4).



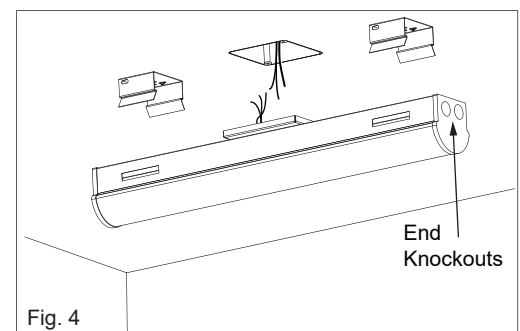
Surface Mount - End Feed

1. Affix mounting clips to desired surface per **Surface Mount Table** with appropriate hardware (Fig. 1).
2. Remove 3 screws on end cap and remove endcap (Fig. 3).
3. Remove the endcap knockout (Fig. 3).
4. Remove cover plate screw, disengage and remove cover plate (Fig. 2).
5. Pull connection wiring out of fixture.
6. Feed the supply wiring through the endcap's knockout and opening of the fixture to the center access hole.
8. Make electrical connections per **Wiring Diagram**.
9. Push connected wires back inside of housing and reattach the cover plate and secure with the cover plate screw (Fig. 2).
10. Re-install end cap and secure with 3 screws (Fig. 3).
11. If used, align the backplate adapter over fixture housing and secure with the four provided screws (Fig. 3).
12. Position fixture over mounting clips and snap into mounting clips (Fig. 4).
13. Check that mounting clips securely lock into mounting slots and fixture is secure.



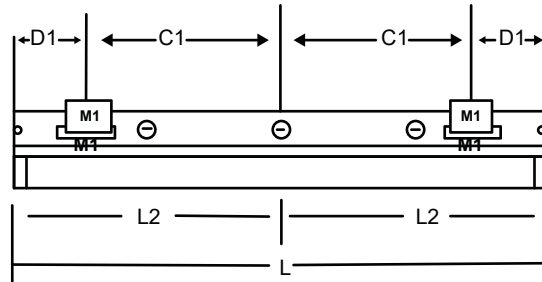
Surface Mount - Side Feed

1. Affix mounting clips to desired surface per **Surface Mount Table** with appropriate hardware (Fig. 1).
2. Remove desired side knockout (Fig. 2).
3. Remove cover plate screw, disengage and remove cover plate (Fig. 2).
4. Pull connection wiring out of fixture.
5. Feed supply wiring through fixture to center.
6. Make electrical connections per **Wiring Diagram**.
7. Re-install cover plate by engaging and sliding into place, then secure with the cover plate screw (Fig. 2).
8. If used, align backplate adapter over fixture housing and assemble with four screws provided (Fig. 4).
9. Position fixture over mounting clips and snap into mounting clips (Fig. 4).
10. Check that mounting clips securely lock into mounting slots and fixture is secure.

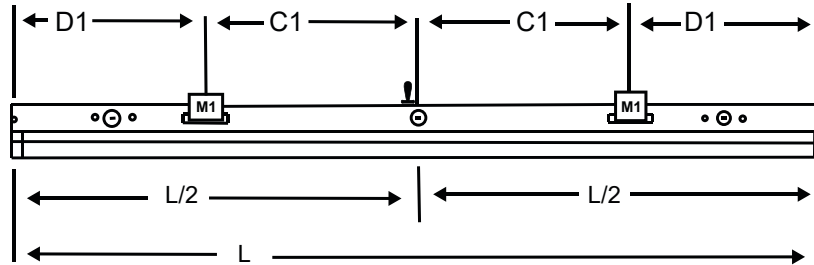


| Surface Mount Table | | | | | | | |
|---------------------|---|--|--|---|--|---------------------------|--|
| | Surface Mount "C1" | Surface Mount "D1" | Surface Mount "E" | Surface Mount "C2" | Surface Mount "D2" | "L" | "L/2" |
| Model Number | "C1" Dimension to center of "M1" Clip/Slot inches | "D1" Dimension from end to center of "M1" Slot/Clip inches | "E" Dimensions from center of "M1" Clip/Slot to center of "M2" Clip/Slot | "C2" Dimension to center of "M2" Clip/Slot inches | "D2" Dimension from end to center of "M2" Slot/Clip inches | "L" Overall length inches | "L/2" Half the length of the fixture in inches |
| TSL-2 | 8.730 | 3.289 | N/A | N/A | N/A | 24.039 | 12.020 |
| TSL-4 | 12.652 | 11.472 | N/A | N/A | N/A | 48.248 | 24.124 |
| TSL-8 | 13.100 | 34.963 | 24.783 | 37.884 | 10.179 | 96.126 | 48.063 |

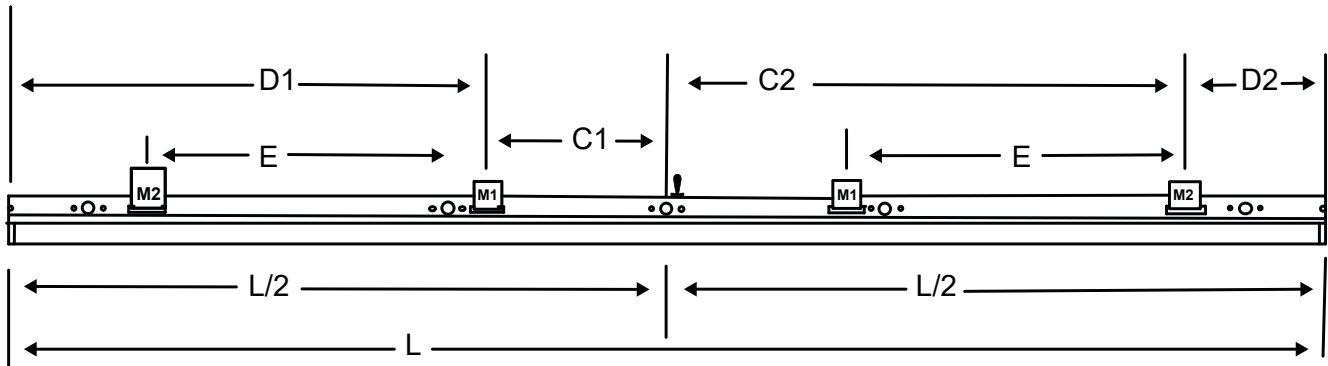
TSL-2



TSL-4

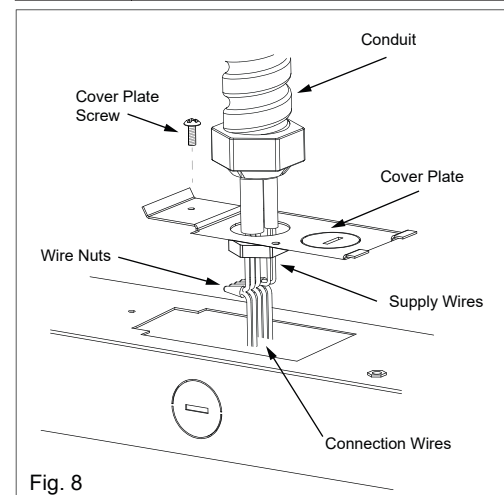
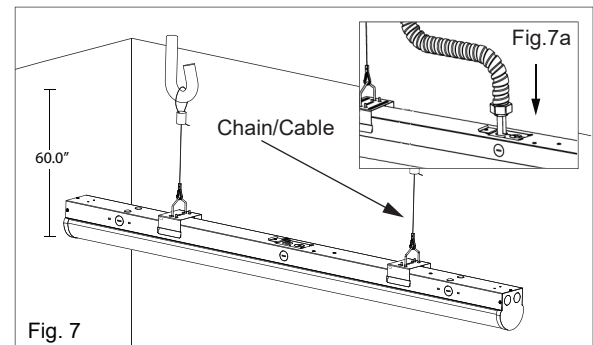
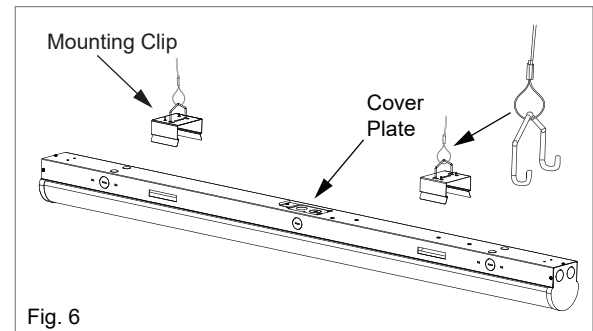
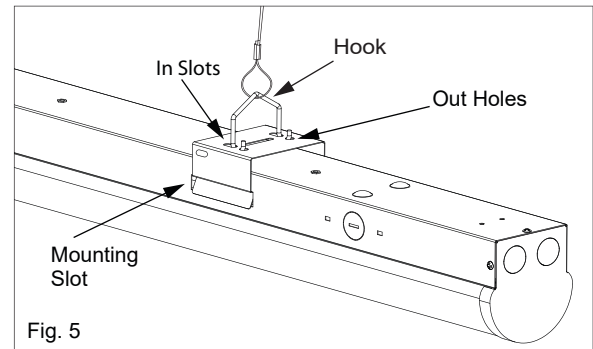


TSL-8



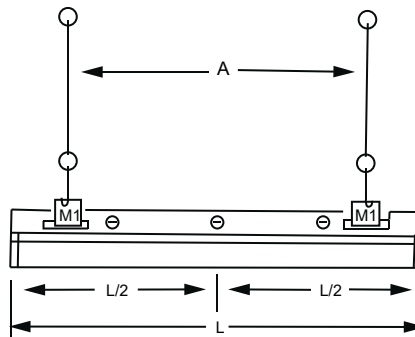
Cable Mount (Using Optional TSL-CHK Cable Mount Accessory)

1. Mark ceiling mounting locations per **Cable Mounting Table**.
2. Secure cable loops to ceiling locations with hardware suitable for purpose (Fig. 7).
3. Pass each hook through the loop in mounting cable accessory (Fig. 5 & 6).
4. Attach hooks through slotted holes on the mounting clips and out through round holes (Fig. 5 & 6).
5. Snap mounting clips onto housing oriented as shown (Fig. 5 & 6). Check for secure engagement in mounting clip and cable.
6. Adjust cable lengths by depressing ends of adjustable gripper and pushing or pulling cable for desired height and level with even support.
7. Remove cover plate screw, disengage and remove cover plate (Fig. 8).
8. Pull connection wiring out of fixture.
9. Feed supply wires through cover plate.
10. Make electrical connections per **Wiring Diagram**.
11. Re-install cover plate by engaging and sliding into place and secure with the cover plate screw (Fig. 8).
12. Check that mounting clips are securely locked into mounting slots, cables and hooks are fully engaged and fixture is secure.
13. Cable assembly provides approximately 60" maximum length from bottom of fixture to top of attachment loop.

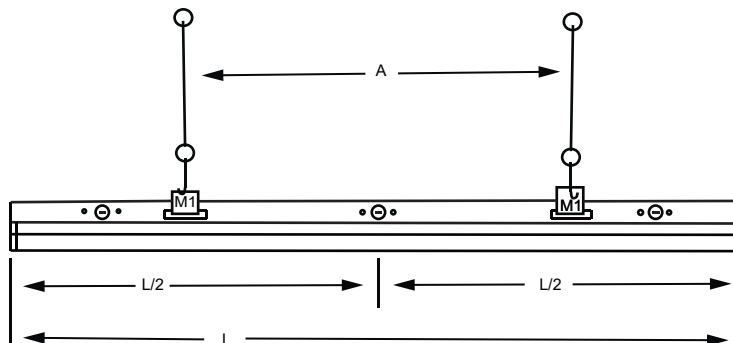


| Cable Mounting Table | | | | |
|----------------------|--|--|----------------------------------|--------------------------|
| | Cable Mount A | Cable Mount B | Length L | L/2 |
| Model Number | Dim "A" Cable Mount Center to Center "M1" Inches | Dim "B" Cable Mount Center to Center "M2" Inches | "L" Actual overall Length inches | "L/2" Half Length inches |
| TSL-2 | 17.461 | N/A | 24.039 | 12.020 |
| TSL-4 | 25.304 | N/A | 48.248 | 24.124 |
| TSL-8 | 26.201 | 75.768 | 96.126 | 48.063 |

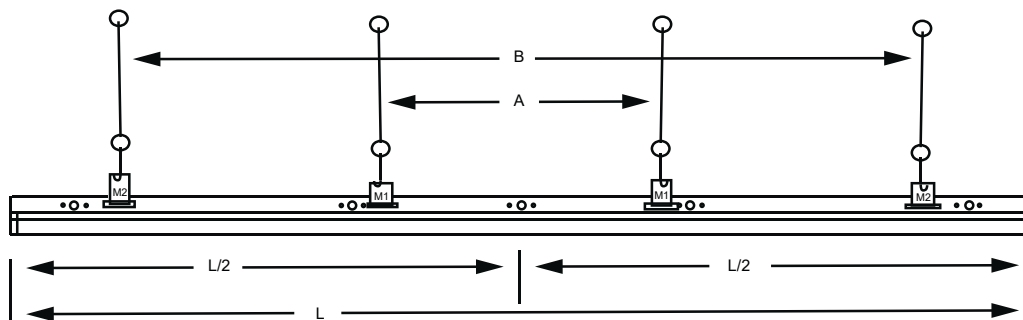
TSL-2



TSL-4



TSL-8



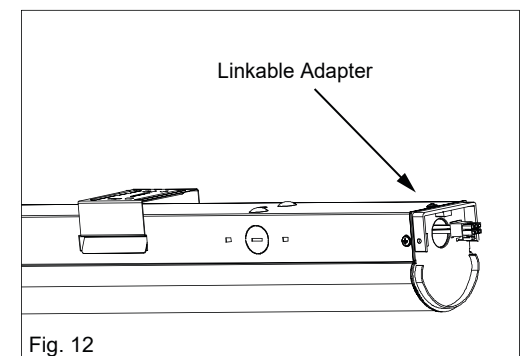
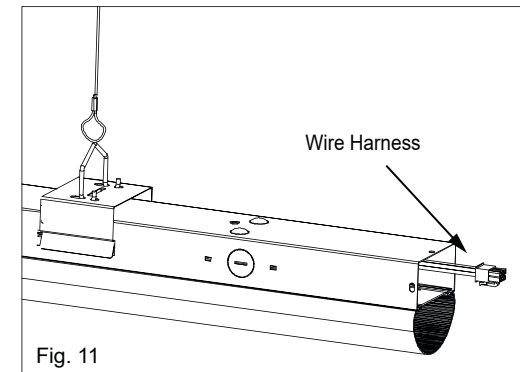
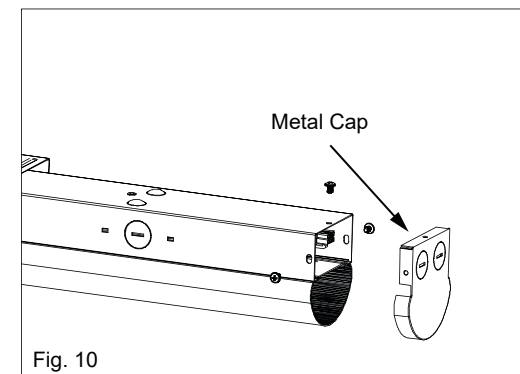
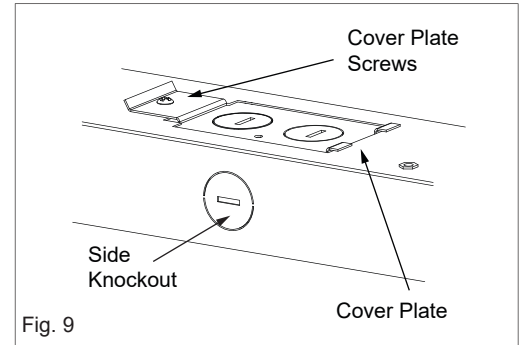
Linking Fixtures

Linkable Accessories (TSL-L4 and TSL-L8 sold separately).

Note: Linkable feature is not compatible with battery backup configured fixtures.

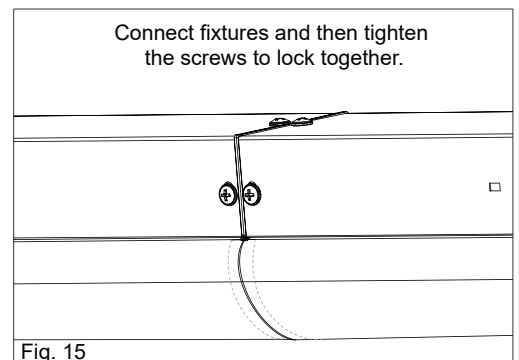
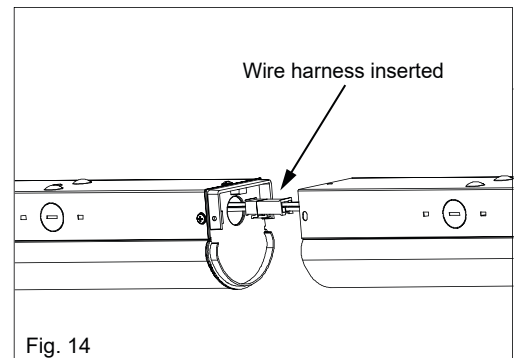
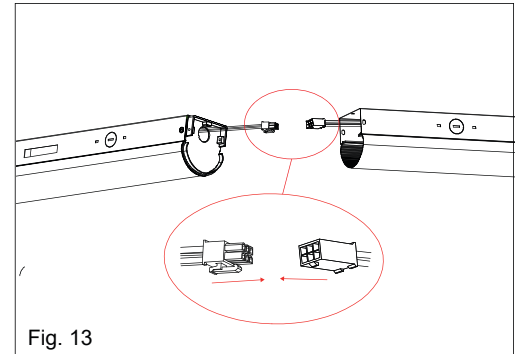
Install mounts for desired fixtures per instructions steps.

1. Remove cover plate screw, disengage and remove cover plate (Fig. 9).
2. Pull connection wiring out of fixture.
3. On fixtures to be linked, remove 3 endcap screws and metal endcap from each end to be joined (Fig. 10).
4. Start with the first fixture to be powered.
5. Inspect the linkable adapter wire harness.
6. Locate the longer male connector equipped end.
7. Fish/Feed the longer male connector end from the center back opening through the open end of the fixture to be joined (Fig. 11).
8. Optional fish/feed the shorter female connector end to the opposite end for linking the other end.
9. Pass wiring through backplate adapter if it is to be installed.
10. Connect linkable adapter wire harness center tap wires and first powered fixture wires per **Linkable Accessories Equipped Power Fixtures - Wiring Diagram**.
11. Pass the male end connector through the plastic linkable adapter and install adapter loosely with 3 previously removed screws (Fig. 12).
12. On the second fixture fish/feed the shorter female connector end of the second linkable adapter wiring harness from the center of the back opening through the open end of the second fixture to be linked.
13. Plug the male connector into the female connector and secure wires (Fig. 13 & 14).
14. Install second fixture into plastic linkable adapter and secure loosely with three endcap screws (Fig. 15).
15. Connect second fixture wiring to loose tapped ends of linkable adapter wiring harness per **Standard Wiring Diagram**.
16. Replace cover plates and cover plate screws (Fig. 9).
17. Attach each backplate adapter with four screws if used (Fig. 3).
18. Tighten linkable adapter screws
19. If surface mounted, Install joined assembly into mounting clips fully and ensure full engagement.
20. Repeat procedure for additional linked assemblies up to the maximum allowed per wire size, load and codes.
21. Installation complete.



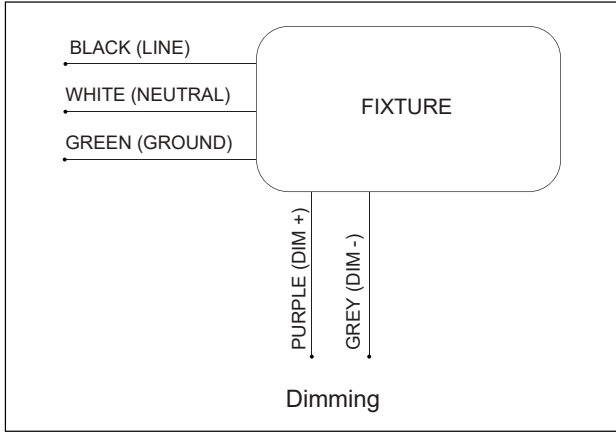
Battery Backup Option

1. Battery Backup comes as a factory installed option.
2. Wire fixture per **Battery Backup Equipped Fixture Wiring Diagram**.
3. The battery on/off switch is on the fixture housing. Turn on to enable battery backup operation.
4. The battery backup indicator light/test button is mounted on the housing.
5. The indicator light will illuminate when unswitched power is on.
6. Allow installed fixture 24-48 hours to fully charge the battery backup.
7. Pressing and holding the battery backup indicator light/test button will light the fixture under battery power. Releasing the test button will resume normal fixture function.

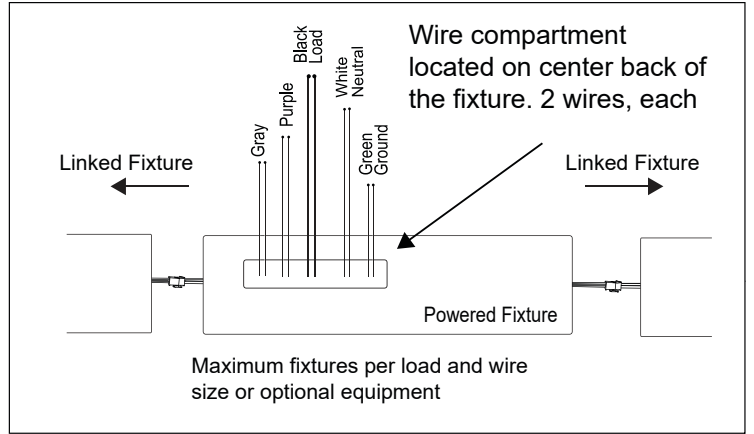


Wiring Diagrams

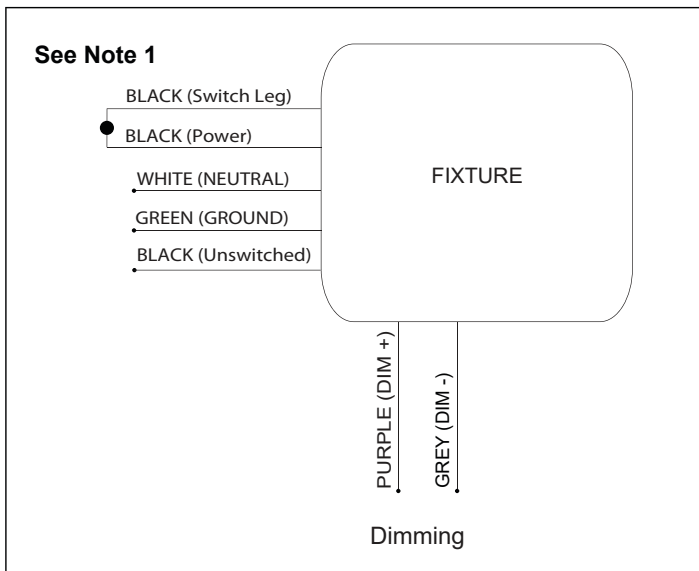
Standard Fixture



Linkable Accessories Equipped Powered Fixture.



Battery Backup Equipped Fixture



Note 1: Fixture is factory wired to be always on with Black Power wire connected to Black Switch Leg wire.
 For switched operation, separate Black Power wire from Black Switch Leg wire and connect switch between them (not included).

OPTIONAL MOTION SENSOR SETTING

By selecting the combination of the DIP switches, sensor data can be precisely set for each specific application.

| | | | | |
|--|-----|-----|-----|------|
| | | 1 | 2 | |
| | I | ON | ON | 100% |
| | II | ON | OFF | 75% |
| | III | OFF | ON | 50% |
| | IV | OFF | OFF | 10% |

Default setting with gray background

Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application. Default set at 100%.

OCCUPANCY SENSOR (Accessory TL-MCS)



| | | | | | |
|--|-----|-----|-----|-----|-------|
| | | 3 | 4 | 5 | |
| | I | ON | ON | ON | 5S |
| | II | OFF | ON | ON | 30S |
| | III | ON | OFF | ON | 90S |
| | IV | OFF | OFF | ON | 3MIN |
| | V | ON | ON | OFF | 20min |
| | VI | OFF | OFF | OFF | +∞ |

Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected. Default set at 30 seconds.

| | | | | | |
|--|-----|-----|-----|-----|-------|
| | | 6 | 7 | 8 | |
| | I | ON | ON | ON | 0S |
| | II | OFF | ON | ON | 5S |
| | III | ON | OFF | ON | 5min |
| | IV | OFF | OFF | ON | 10min |
| | V | ON | ON | OFF | 30min |
| | VI | OFF | ON | OFF | 1h |
| | VII | OFF | OFF | OFF | +∞ |

Standby period

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people.

When set to +∞ mode, the low light maintained until motion is detected. Default set to five minutes.

| | | | | | | |
|--|-----|-----|-----|-----|-----|---------|
| | | 1 | 2 | 3 | 4 | |
| | I | OFF | OFF | ON | ON | 2Lux |
| | II | OFF | OFF | OFF | ON | 5Lux |
| | III | OFF | ON | ON | OFF | 10Lux |
| | IV | OFF | OFF | ON | OFF | 25Lux |
| | V | OFF | ON | OFF | OFF | 50Lux |
| | VI | ON | OFF | OFF | OFF | 100Lux |
| | VII | OFF | OFF | OFF | OFF | Disable |

Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level. 50Lux, 30Lux: twilight operation, 10Lux, 5Lux: darkness operations only. Default set to disable.

Note - The daylight sensor is active only when lamp totally switches off.

| | | | | |
|--|-----|-----|-----|-----|
| | | 5 | 6 | |
| | I | ON | ON | 50% |
| | II | OFF | ON | 30% |
| | III | ON | OFF | 20% |
| | IV | OFF | OFF | 10% |

Standby dimming level

The low light level you would like to have after the hold time in the long absence of people. Default set as 30%.

SENSOR REMOTE SETTINGS (Remote Control TL-MSC-REMOTE)

| Button | Function | Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----------------|--|-----------------|--------------------|-----------------|-----------------|--------------------|-----------------|-----|------|-----|-------|-----|------|-----|------|-------|-------|-----|-------|-----|------|-------|--------|-----|-------|-----|------|--------|--------|-----|---------|
| | Constant ON/OFF | Press the "ON/OFF" button, the light goes to a constant on or constant off mode, sensor is disabled. Press "Reset" or "Auto Mode" button to quit from this mode. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Reset | Reset | Press "Reset" button, all parameters can be set via DIP switch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sensor Mode | Press "Auto Mode" button, the sensor will start to work and all parameter settings will remain the same as the previous status before the light was switched on/off. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DIM Test | Press "DIM Test" button, the 1-10Vdc dimming interface will be dimming automatically according to the dimming level you want, after 2s, the parameters of the sensor will be returned to the latest settings. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Test Mode | The button "Test (2s)" is for testing purpose only. The sensor will go to test mode: Detection sensitivity: 100% Hold time: 2 seconds Stand-by period: 0s Daylight sensor: Disable *This mode can be exited by pressing "reset" or any button on the remote control. The sensor setting is changed accordingly. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Scene Mode | <table border="1"> <thead> <tr> <th>Scene Options</th> <th>Detection Area</th> <th>Hold Time</th> <th>Stand-by Period</th> <th>Stand-by DIM level</th> <th>Daylight Sensor</th> </tr> </thead> <tbody> <tr> <td>QS1</td> <td>100%</td> <td>30s</td> <td>1 min</td> <td>10%</td> <td>5Lux</td> </tr> <tr> <td>QS2</td> <td>100%</td> <td>1 min</td> <td>3 min</td> <td>10%</td> <td>10Lux</td> </tr> <tr> <td>QS3</td> <td>100%</td> <td>5 min</td> <td>10 min</td> <td>10%</td> <td>30Lux</td> </tr> <tr> <td>QS4</td> <td>100%</td> <td>10 Min</td> <td>30 Min</td> <td>10%</td> <td>Disable</td> </tr> </tbody> </table> <p>Note: Detection area/hold time/stand-by period/stand-by DIM level/daylight sensor can be adjusted by pressing corresponding button. The latest setting does not change until the end user changes it.</p> | Scene Options | Detection Area | Hold Time | Stand-by Period | Stand-by DIM level | Daylight Sensor | QS1 | 100% | 30s | 1 min | 10% | 5Lux | QS2 | 100% | 1 min | 3 min | 10% | 10Lux | QS3 | 100% | 5 min | 10 min | 10% | 30Lux | QS4 | 100% | 10 Min | 30 Min | 10% | Disable |
| Scene Options | Detection Area | Hold Time | Stand-by Period | Stand-by DIM level | Daylight Sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QS1 | 100% | 30s | 1 min | 10% | 5Lux | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QS2 | 100% | 1 min | 3 min | 10% | 10Lux | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QS3 | 100% | 5 min | 10 min | 10% | 30Lux | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QS4 | 100% | 10 Min | 30 Min | 10% | Disable | | | | | | | | | | | | | | | | | | | | | | | | | | | |

