

Create a Muting Solution for the EZ-SCREEN LS

Follow these steps to create a turn-key muting solution for your EZ-SCREEN LS Safety Light Curtain with a 300 mm (1 ft) PVC-jacketed cable with an 8-pin M12 male quick-disconnect connector.

Figure 1. L Configuration (Right Side)

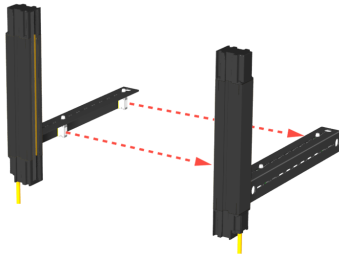


Figure 2. L Configuration (Left Side)

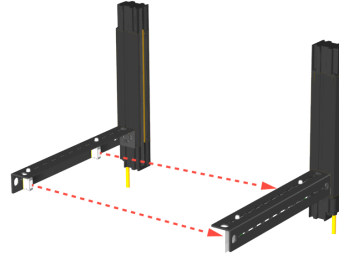


Figure 3. T Configuration

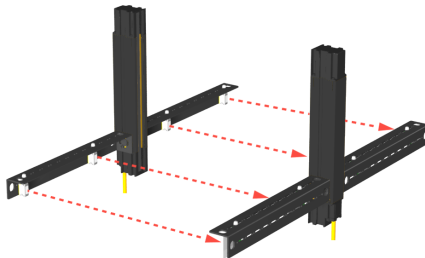
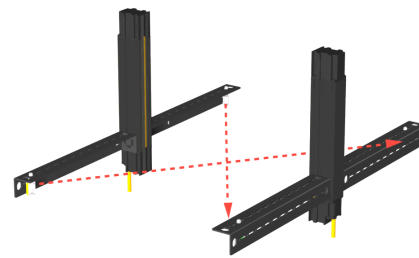


Figure 4. X Configuration



- Select and order one of the following SGS Muting Arm Kits.
 - L-Configuration (Right Side): **SGSA-ML-R-LPQ20**
 - L-Configuration (Left Side): **SGSA-ML-L-LPQ20**
 - T-Configuration: **SGSA-MT-LPQ20**
 - X-Configuration: **SGSA-MX-LPQ20**
- Order the EZ-SCREEN LS Hardware Adaptor Kit **EZLSA-MCB-HW**.
- Order the appropriate connection cable(s). (See [System Diagram](#) on page 2.)
 - LS muting connection cable (A) **CSM4-M1281M1251M1281** and one connection cable (F) **DEE2R-5XXD** where XX is the length in feet.
 - SGS mute arm kit connection cable (select one): For T-Muting (B1) **CSA4-M1251M1251M1251M1251** or for L-Muting or X-Muting (B2) **CSA-M1241M1241**.
 - LS emitter connection cable (C) **DEE2R-8XXD** where XX is the length in feet
 - Safety controller connection cable (D) **QDEG-12XXE** where XX is the length in feet
- Order a mute light and cable.
 - Select a mute light (E1) from [EZ-LIGHT® Mute Lights](#) on page 3.
 - Mute light cable (E2) **DEE2R-5XXD** where XX is the length in feet.
- Order a Banner SC/XS Safety Controller.

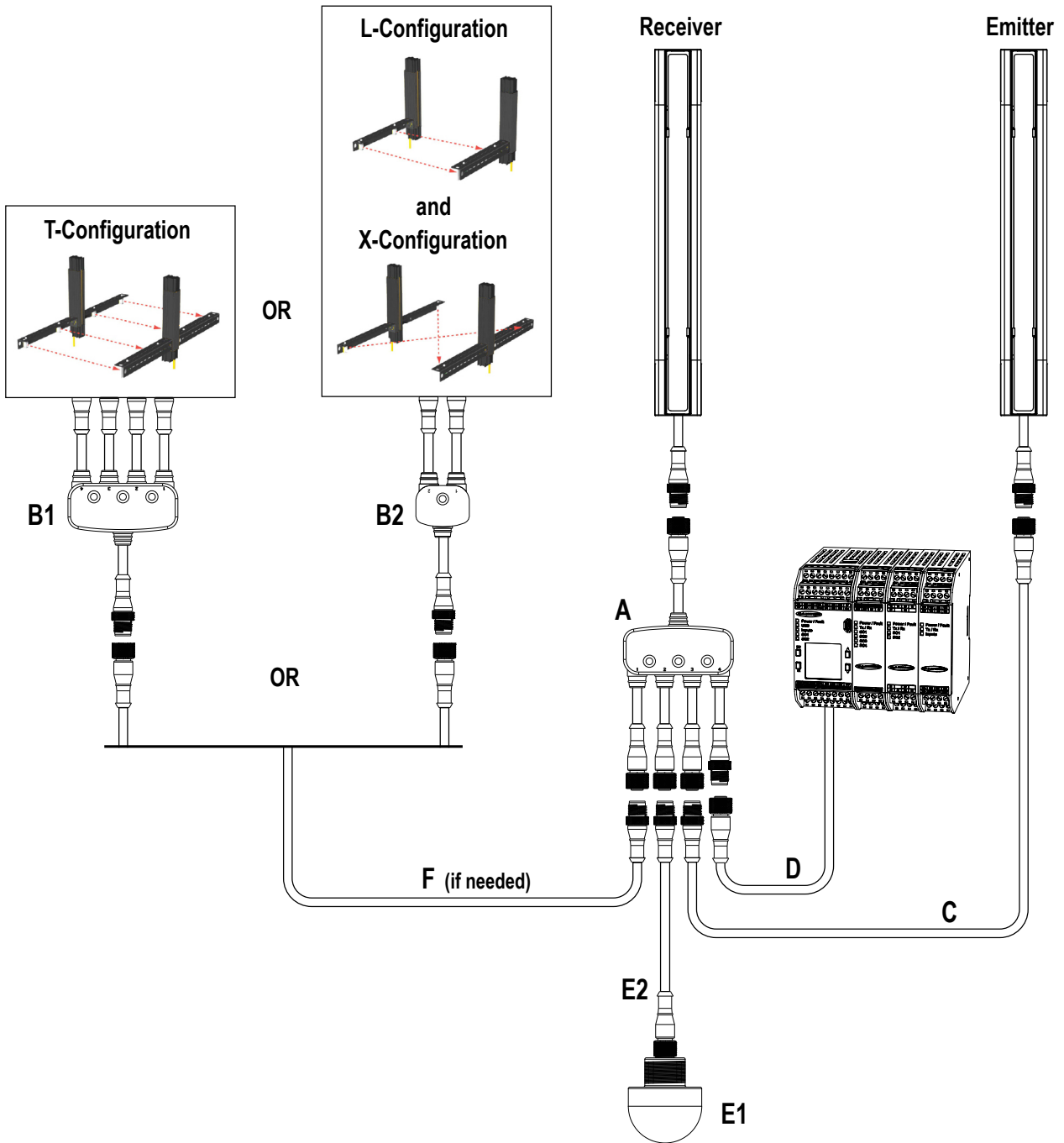
Table 1: Safety controller models

| Non-Expandable Models | Expandable Models | Description |
|-----------------------|-------------------|--|
| SC26-2 | XS26-2 | 26 convertible I/O and 2 redundant solid state safety outputs |
| SC26-2d | XS26-2d | 26 convertible I/O and 2 redundant solid state safety outputs with display |
| SC26-2e | XS26-2e | 26 convertible I/O and 2 redundant solid state safety outputs with Ethernet |
| SC26-2de | XS26-2de | 26 convertible I/O and 2 redundant solid state safety outputs with display and Ethernet |
| SC10-2roe | | 10 inputs, 2 redundant relay safety outputs (3 contacts each) (ISD and Ethernet compatible) |
| | XS26-ISDd | 26 inputs, 2 redundant solid state safety outputs with display, Ethernet, and 8 ISD channels |







System Diagram

Figure 5. EZ-SCREEN LS muting system diagram



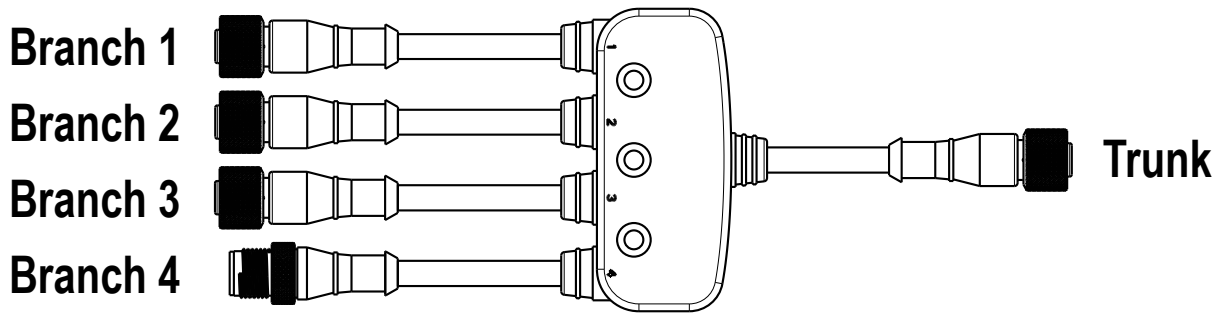
EZ-LIGHT® Mute Lights

| Models | Construction | Connection/ Recommended Cordset | LED Function |
|---|---|--|--------------|
|  TL50WQ TL50YQ | <ul style="list-style-type: none"> Bases and Covers: ABS Light Seg.: Polycarbonate 30 mm base mount IP67 Indicates Mute Status | DEE2R-5XXXD (where XXX is the length in feet) | White |
|  K50LWXXPQ K50LYXXPQ | <ul style="list-style-type: none"> Polycarbonate housing, 50 mm thermoplastic dome, 30 mm base mount Fully encapsulated, IP67 Indicates Mute Status | | Yellow |
|  K50FLWXXQPMA K50FLYXXQPMA | <ul style="list-style-type: none"> Polycarbonate base, translucent polycarbonate dome, flat mount. Fully encapsulated, IP67, IP69K Indicates Mute Status | | White |
|  K80LWXXQPMA K80LYXXQPMA | <ul style="list-style-type: none"> Polycarbonate housing, 50 mm thermoplastic dome, flat or DIN mount Fully encapsulated, IP67 Indicates Mute Status | | Yellow |

See Cordset Accessories for cordset information.

Wiring Diagrams

Figure 6. Splitter cordset branches and trunk



| Splitter Cordset CSM4-M1281M1251M1281 | Description |
|---------------------------------------|--|
| Trunk | EZ-SCREEN LS 8-pin Receiver; refer to the EZ-SCREEN LS Instruction Manual (p/n 179480) for the receiver pinout |
| Branch 1 | SGS mute arm kit connection cable |
| Branch 2 | Mute light cable |
| Branch 3 | EZ-SCREEN LS 8-pin Emitter connection cable; refer to the EZ-SCREEN LS Instruction Manual (p/n 179480) for the emitter pinout |
| Branch 4 | To the Safety Controller (QDEG-12xxE) and electrical cabinet using a 12-pin cable |

| Pin | Branch 1: 5-pin M12 Female (M1) | Branch 2: Mute Light with 5-pin M12 Female (M2) | Branch 4: 12-pin M12 Male (QDEG-12xxxE wire color) |
|-----|---------------------------------|---|--|
| 1 | + 24 V DC | + 24 V DC | OSSD 2 (white) |
| 2 | Mute 2 | - | + 24 V DC (brown) |
| 3 | 0 V DC | 0 V DC | Ground (green) |

| Pin | Branch 1: 5-pin M12 Female (M1) | Branch 2: Mute Light with 5-pin M12 Female (M2) | Branch 4: 12-pin M12 Male (QDEG-12xxxE wire color) |
|-----|---------------------------------|---|--|
| 4 | Mute 1 | Mute light | Mute 2 (yellow) |
| 5 | Ground | Ground | No connection |
| 6 | | | No connection |
| 7 | | | 0 V DC (dark blue) |
| 8 | | | Mute light (red) |
| 9 | | | EDM (orange) |
| 10 | | | Mute 1 (light blue) |
| 11 | | | OSSD 1 (black) |
| 12 | | | Scan code select (violet) |

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