

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 cable with an 8-pin M12 male quick disconnect.

Figure 1. L Configuration (Right Side)

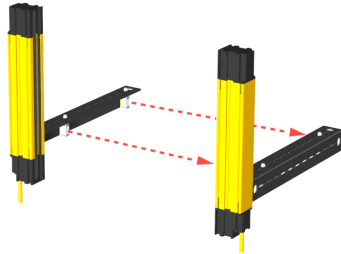


Figure 2. L Configuration (Left Side)

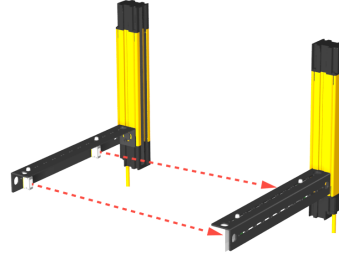


Figure 3. T Configuration

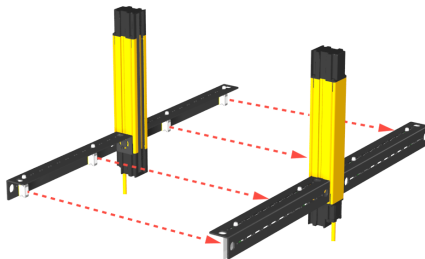
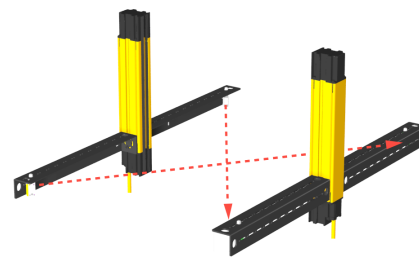


Figure 4. X Configuration



- 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 p. 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) **SGSA-MCS-4** or for L-Muting or X-Muting (B2) **SGSA-MCS-2**.
 - LS emitter connection cable (C) **DEE2R-8 XXD** 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 p. 3.
 - Mute light cable (E2) **DEE2R-5XX** where XX is the length in feet.
- Order a Banner SC/XS Safety Controller.

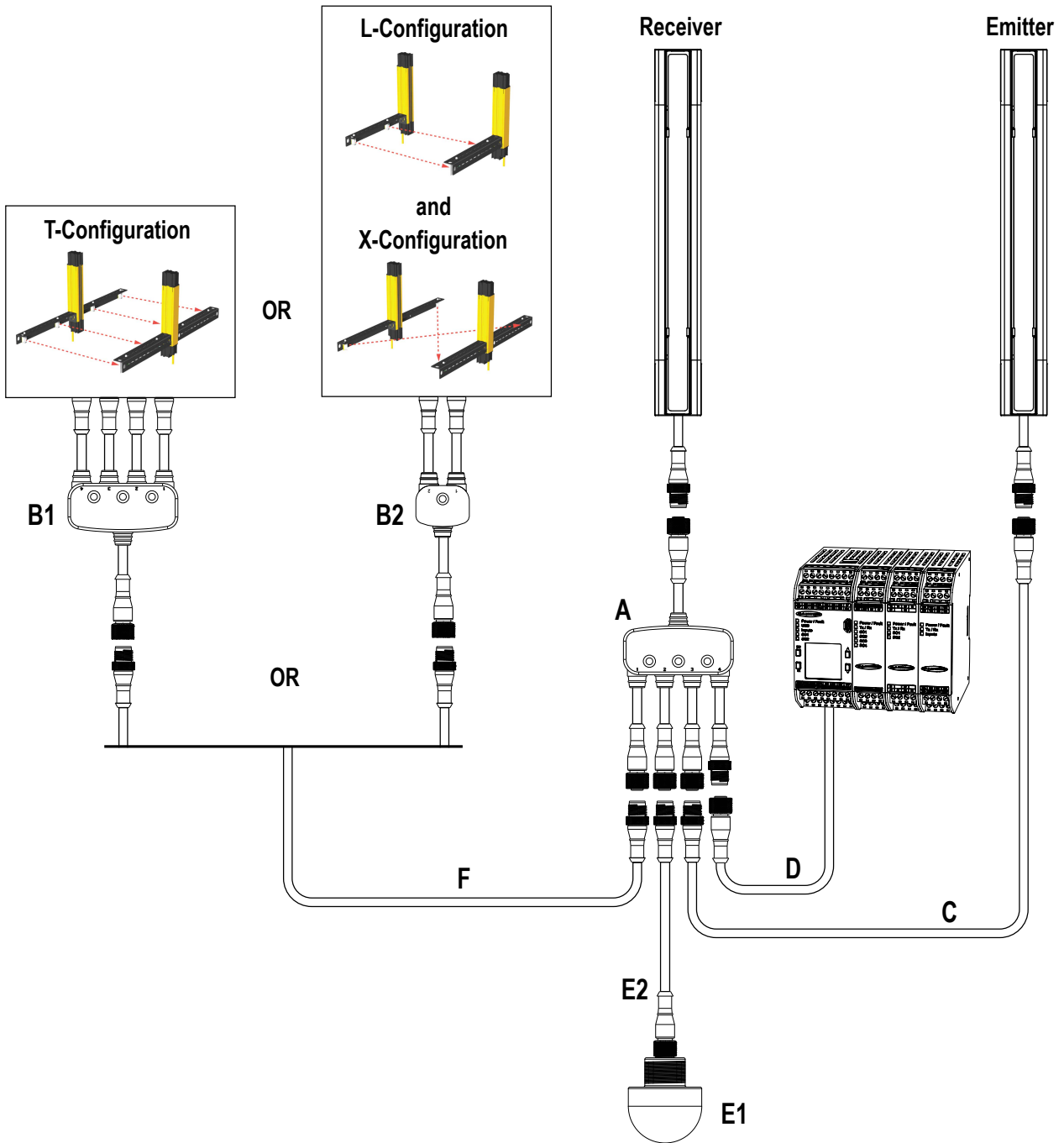
Table 1: Safety controller models

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)







System Diagram

Figure 5. EZ-SCREEN LS muting system diagram



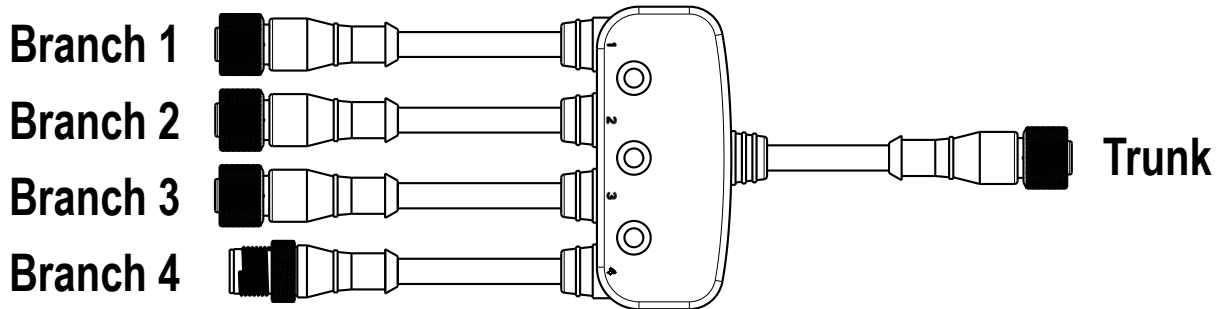
EZ-LIGHT® Mute Lights

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)

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)
3	0 V DC	0 V DC	Ground (green)
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)

Banner Engineering Corp. Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. **IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.**

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp. Any misuse, abuse, or improper application or installation of this product or use of the product for personal protection applications when the product is identified as not intended for such purposes will void the product warranty. Any modifications to this product without prior express approval by Banner Engineering Corp will void the product warranties. All specifications published in this document are subject to change; Banner reserves the right to modify product specifications or update documentation at any time. Specifications and product information in English supersede that which is provided in any other language. For the most recent version of any documentation, refer to: www.bannerengineering.com.

For patent information, see www.bannerengineering.com/patents.



more sensors, more solutions