Supplement to Instruction Manual (p/n 112852)

This supplemental document describes the Remote Fixed Blanking process for EZ-SCREEN SLS Safety Light Curtain sensors. It is to be used in conjunction with the standard EZ-SCREEN SLS Safety Light Curtain Instruction Manual (p/n 112852).



To use the remote fixed blanking feature without opening the access cover, the original receivers were modified to include additional internal software and an 8-Pin connector on the blind end of the units (8-Pin M12 QD cable is required).

See the EZ-SCREEN SLS Safety Light Curtain Instruction Manual for applications, limitations, alignment aids, replacement parts, mounting brackets, dimensions, and mounting instructions.

The user is responsible for verifying whether the safeguarding is appropriate for the application and is installed, as instructed by the EZ-SCREEN SLS Safety Light Curtain Instruction Manual (p/n 122852), by a Qualified Person (as defined in the Glossary of that manual).

Before installing the EZ-SCREEN SLS Safety Light Curtain, read the EZ-SCREEN SLS Safety Light Curtain Instruction Manual in its entirety.

The System's ability to perform its safeguarding function depends upon the appropriateness of the application and upon its proper mechanical and electrical installation, and interfacing to the guarded machine.

If all mounting, installation, interfacing, and checkout procedures are not followed properly, the System cannot provide the protection for which it was designed.

Remote Key Switches

Model	Description	
EZA-RBK-1	Remote Blanking Key Switch—Allows the frequent configuration of a fixed blanked area. Used to configure fixed blanking remotely, without using the receiver DIP switches. Use with DEE2R-8..D cordsets to provide the required extension, as needed.	
EZA-RR-1	Remote Reset Key Switch—External, normally open, reset switch with 8-pin M12 QD; can be interconnected using cordset models QDE-8..D, DEE2R-8..D, or CSB-..M1281.	
EZA-RBK-K	Replacement key for Remote Blanking Key Switch **EZA-RBK-1**	

EZS SLS Remote Fixed Blanking Wiring Diagram

The EZA-RBK-1 includes both the programming switch and a programming LED. The box can be connected to the Remote Fixed Blanking receiver with a DEE2R-8xxD cable. Use the wiring diagram below if the remote blanking key switch and LED need to use the control panel wiring.

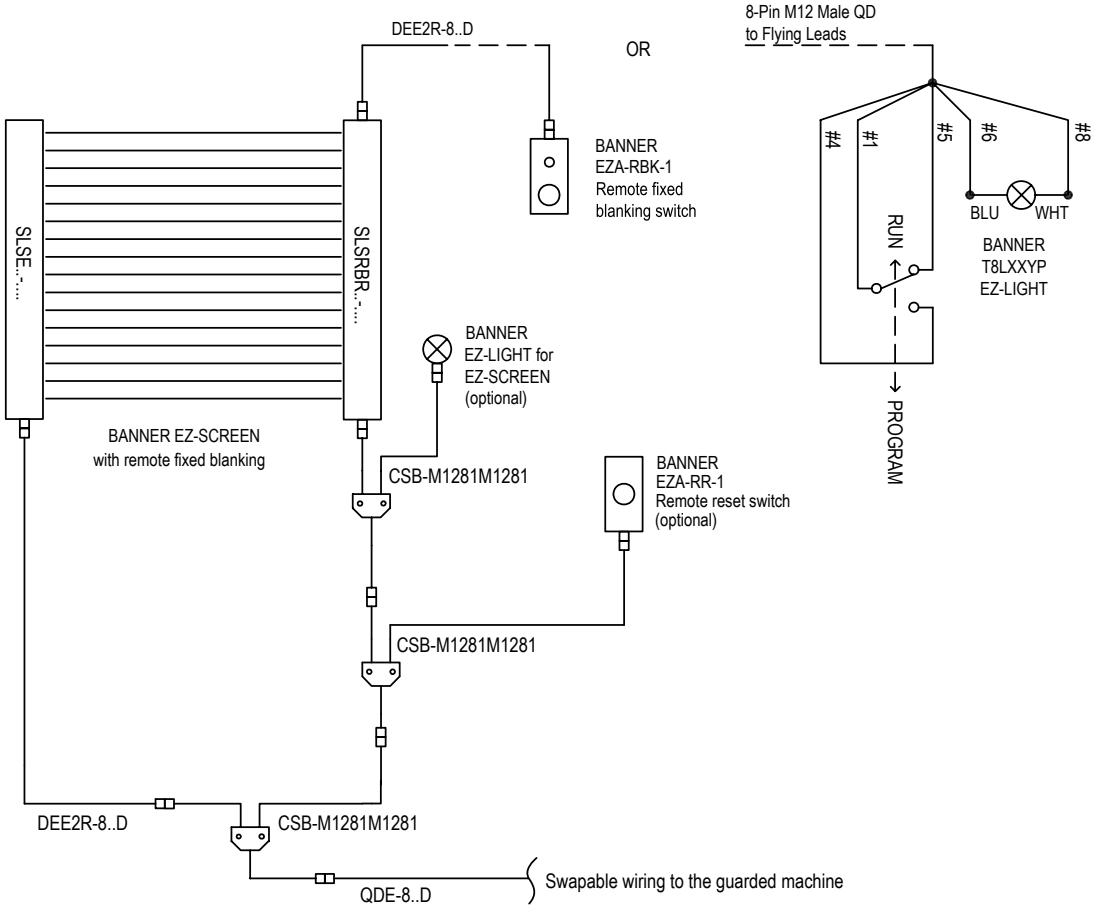
Original Instructions
20-Feb-26

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p/n: 179470 Rev. B

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Wiring Diagram—Remote Blanking Receiver Key Switch and LED



Remote Fixed Blanking Programming Procedure

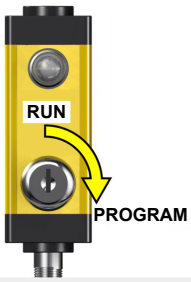
The programming switch, EZA-RBK-1, and a reset switch, such as EZA-RR-1, are needed to perform the remote programming operation.

One or multiple areas within an EZ-SCREEN sensor pair may be blanked out. The minimum number of beams between two blanked areas is one. Any beam other than the sync beam may be blanked. All beams of a fixed blanked area must stay blocked at all times (after the fixed blanking programming mode has been exited) for the OSSDs to stay on.

The remote fixed blanking programming procedure must be completed within 10 minutes or less. If not completed within the allotted time limit, error code 12 appears on the receiver display. If the object is removed before re-programming, error code 10 appears. Both error codes, 10 and 12, indicate a device lockout condition (this situation is covered below).

Follow these steps to program the system:

- **If the device is in the normal operating mode (no lockout conditions)**, turn the Remote Blanking Key Switch of the EZA-RBK-1 to the PROGRAM position. The LED of the EZA-RBK-1 should turn on (solid yellow). The receiver display alternates between PFA and the number of blocked channels. Proceed to Step 1 below.
- **If the device is in a lockout mode** (error code 10 or 12 is displayed), turn the Remote Blanking Key Switch of the EZA-RBK-1 to the PROGRAM position. The device state should not change. Perform a key reset of the receiver. The LED of the EZA-RBK-1 should turn on (solid yellow). The receiver display now alternates between PFA and the number of blocked channels. Proceed to Step 1 below.



1. Place or move the obstruction (tooling, fixtures, etc.) into the defined area.

> **NOTE:** The first sensing beam (synchronization beam) at the display end of the sensor must remain clear.

2. The receiver's display alternates between PFA and the number of blocked channels (the LED of the EZA-RBK-1 should still be on). The zone indicators remain active and denote the location of the locked beams.
3. To teach the blanked beams, return the Remote Blanking Key Switch of the EZA-RBK-1 back to the Run position. Assuming the unit is in the Trip mode, observe the following:

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a. The LED on the EZA-RBK-1 will flash slowly, then rapidly, and then turn off when the program is accepted (in approximately 5 seconds).
b. The receiver's display shows a solid PFC (Program Fixed Blanking Complete); this switches to a dash in the center display when the programming is complete.
c. Zone indicators flash the approximate location of the fixed blanked area programmed.

If the system is in the Trip mode, it should now be running with the OSSDs on. If the system is in the Latch mode, a key reset of the receiver is needed to place the system in the run mode with the OSSDs on.

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