Product Information

Bulletin

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SUBJECT: **FLX-4000™ (Dialight®) 12" LED Flashing Light Assembly 042975-7**

NO: **1-06**

CONCERN: **Incorrect component causing false activation of the highway crossing warning signals**

DATE: **4-18-2006**

CLASS / ACTION: **Operational / Mandatory**

I. SUMMARY AND BACKGROUND

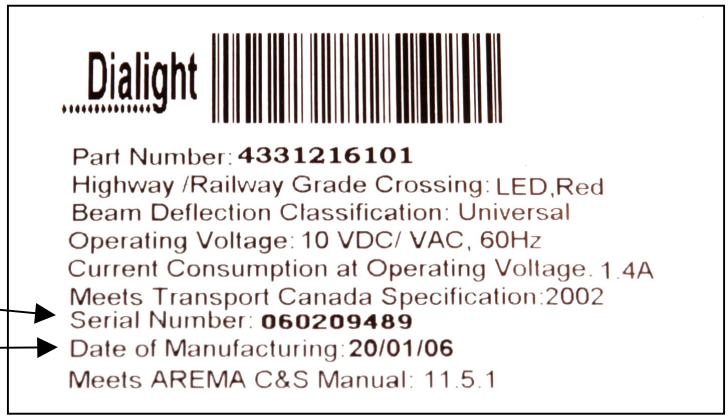
Safetran Systems Corporation has been made aware of a number of instances where the FLX-4000™ Flashing Light Assembly, manufactured for Safetran by Dialight Corporation, had an incorrect component installed in the LED signal unit by Dialight. This incorrect component does not affect the normal operation of the LED assembly; however, it can cause a false activation of the highway crossing warning signals when used in conjunction with Safetran's Solid-State Crossing Controllers (SSCC III/IIIA/III Plus/IV and IIIi). This particular false activation can cause a **Bank A** and/or **Bank B** error message to be displayed on the SSCC display and occurs only when all of the lamps at the crossing, including gate lamps, are LED units.

NOTE

This bulletin covers LED light assemblies supplied by Dialight Corporation and does not apply to LED light assemblies manufactured by suppliers other than Dialight Corporation.

II. EQUIPMENT AFFECTED

The last five digits of the serial numbers for the affected FLX-4000™ LED assemblies range from 05228 through 06031. These units were manufactured between 16 August 2005 (16/08/05) and 31 January 2006 (31/01/06). The serial number and date of manufacture information is located on a white label attached to the back of each FLX-4000™ assembly. A sample of the label is shown below.



Dialight has agreed that Safetran customers with FLX-4000™ LED assemblies falling within the serial number and date ranges provided above may contact Dialight Corporation directly for an expedited product exchange (see attached letter).

III. ACTION REQUIRED

Before placing the crossing in revenue service or, if the Safetran SSCC is reporting **Bank A** and/or **Bank B** errors, proceed as follows:

- Verify the serial number and manufacture date of all FLX-4000™ LED assemblies used at the crossing. If any of the LED assemblies fall within the S/N and date ranges specified above, please contact: **Dialight Customer Service Representative Ginger Ablonsky at 732-751-5832 and request an RMA number for all replacement units.**

NOTE

While replacement units are in route, a temporary solution may be employed to avoid the Bank A and Bank B failures. See **Temporary Solution** in part VI below.

- To verify proper operation of the FLX-4000™ LED assemblies, the "12:00 noon" operational test described below in part IV may be performed.

IV. OPERATIONAL "12 NOON" TESTING

In order to detect dormant failures of lamp outputs (1L1, 1L2, 2L1 and 2L2) on the Safetran SSCC, it performs an integrity test of the outputs beginning at 11:59:55. This test, also referred to as the "12-noon Test", is performed as follows:

NOTE

The DETECT OPEN LAMP NEUTRAL WIRE function should not be used with LED lamps. If this function is enabled, disable it in the Configuration menu before proceeding with "12-noon test".

1. Set the SSCC clock to 11:58 AM (Note: SSCC IIIi clock is set from "Site Info" menu of 4000 GCP).
2. Wait 4 minutes:
   a. If after 4 minutes no "Bank A" or "Bank B" errors have been recorded, the FLX-4000™ LED assemblies used at this location may be considered as operating properly. **Note that for the Bank A/Bank B errors to occur, all of the lights at the crossing, including the gate lamps, must be LEDs**.
   b. If a failure occurs, refer to part III above.
3. Set the SSCC clock to the correct time.

V. ERROR RECOVERY

Interim error recovery can be accomplished by resetting (cycling) the input power to the SSCC. This error recovery will be in effect only until the next SSCC activation. See part VI for a temporary solution.

VI. TEMPORARY SOLUTION

The following is a temporary work-around to eliminate the potential for the Bank A / Bank B errors to occur until such time as the FLX-4000™ assemblies are replaced.

- Attach at least one incandescent lamp on each SSCC lamp output (e.g., 1L1, 1L2, 2L1 and 2L2) inside the bungalow.
- These lamps can be installed on the cable terminations in the house on those circuits controlled by the SSCC lamp outputs (1L1, 1L2, 2L1 and 2L2).
- Safetran Systems recommends checking lamp voltages following the installation of these additional lamps.

If you have any questions concerning this bulletin, please call our Technical Support Department at 1-800-793-7233.

Attachments: Letter, Laura Hoffman, Business Development Manager, Dialight Corporation

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February 24, 2006

As discussed with Safetran, Dialight has been advised of a potential nuisance situation with our Rail Crossing Signal Modules 433-1216-101, due to a design change that was implemented on August 16th, 2006. The design change which included the substitution of a power supply capacitor, may, in very limited situations, cause a conflict with Safetran's Solid State Crossing Controllers (SSCC), resulting in a nuisance condition at the crossing. This capacitor change was implemented only on modules manufactured between August 16, 2005 to January 31, 2006 (Date code/serial number range 05228 – 06031).

Dialight is in agreement that Safetran customer's who experience this condition, may contact Dialight for an expedited product exchange. Customers should contact Dialight's Customer Service Representative, Ginger Ablonsky, at 732-751-5832 to request an RMA for replacement units. Dialight will send the replacement units by the following day. Further details regarding return of the field units will be finalized at a later date.

Regards,

Laura Hoffmann
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