



Gemini ELV Lamp Supply Monitor

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Product: *Gemini***Modifications Req:** *No***Retrospective Action Req:** *No***Priority of Change:** *Information Only*

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Introduction

On an ELV Controller (ST900ELV or ST750ELV), the Serial OMU will report 'Lamps Off' to the RMS Instation if the serial link to the Controller fails or is unplugged. If the Controller is in fact still powering the lights, this can represent a false alarm.

It is recommended that this kit is fitted on all future ELV Controller orders which include a Gemini OMU.

Scope

A solution which allows Gemini to identify ELV lamp supply status even when the serial link is lost is now available.

Procedure

An ELV alternative to connecting the Controller's lamp supply to a dedicated Mains State Input on the OMU is now available. This comprises an ELV Lamp Supply Monitor Kit 667/1/32612/000 (with full instructions given on drawing > 667/GA/32612/000).

Use of this ELV Lamp Supply Monitor Kit allows the OMU to determine whether the ELV lamp supply is present when the serial link fails, and report to the Instation accordingly.

The Controller must have an I/O card output available, with addition of suitable Special Conditioning code. Updated versions of ST750ELV standard configurations are available from the Intersection Configuration Group.

The following Special Conditioning code should be used for ST900ELV:

LMPON.SWLMP.S.NOT(FLF17) = LAMPSP

The following Special Conditioning code should be used for ST750ELV and also any ST900ELV which has a standalone PED stream or part-time working i.e. any ELV controller which has a stream that may be extinguished due to a second red lamp fail:

LMPON.SWLMP.S.NOT(FLF17).NOT(LMP2RED0+LMP2RED1) = LAMPSP

By including a term for second red lamp failure, the OMU is also able to detect 'lamps off' if the lights are extinguished due to a second red lamp failure. The above example is for 2 streams. If there are 3 streams that could independently be extinguished by a second red lamp fail, the Special Conditioning code would be:

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$LMPON.SWLMP.S.NOT(FLF17).NOT(LMP2RED0+LMP2RED1+LMP2RED2) = LAMPSUP$

Assign the LAMPSUP output to an available I/O card output using the Input/Output tables (and the command IOA on a pedestrian controller). See the configuration's Special Instructions for details.

In order to install the ELV Lamp Supply Monitor Kit as a field upgrade, it is necessary to switch off power to the Controller while the work is in progress.

Related documents

- > [667/GA/32612/000](#)
- > [667/CC/32900/000](#)
- > [667/CC/32750/000](#)
- > [667/SU/32900/000](#)
- > [667/HB/32600/000](#)

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