

New Lamp Monitor Types for LED Signals

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Product: IC4**Modifications Req:** No**Retrospective Action Req :** No**Priority of Change:** Information only

- ✓ Introduction
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- ✓ Procedure
- ✓ Related documents

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Email: harry.smyth@siemens.comwww.siemenstraffic.com*Committed to quality traffic solutions and service excellence***Introduction**

There are 3 new lamp monitor types which have been added to the controller to improve the lamp monitoring capabilities of On-Board Sensors when LED Signals are fitted that cannot be monitored. This bulletin details how they are called up in IC4 and what firmware is required.

These lamp monitor types are intended for use at sites where LED signals that can **NOT** be monitored by the controller ('incompatible' signals) are fitted. They do not give the controller the capability to monitor the incompatible LED signals, but they allow the controller to monitor compatible LED signals (or incandescent lamps) on the other colours of the same phase and sensor. If these lamp monitor types are not used but incompatible LED Signals are fitted to a phase, monitoring by the associated On-Board Sensor must be disabled.

Scope

All ST800/ST700 controllers fitted with PB800 issue 23 (or later) and all ST900/ST750 controllers.

Procedure

The 3 new lamp monitor types are listed below
(where R = Red, G = Green, A = Amber, W = Wait, F = Flashing and x = Not Monitored):

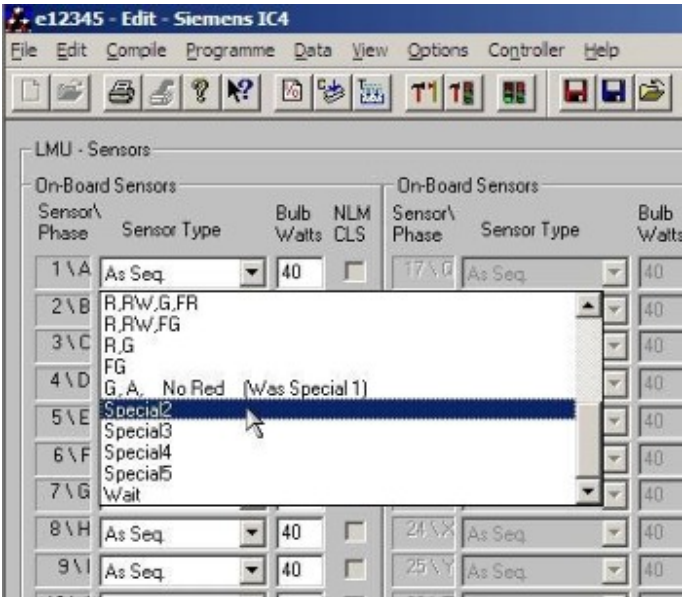
- **R,A,xG - Not Green (Special2)**
"R,A,xG" can be used with an On-Board Sensor to monitor the red and amber lamps when, for example, an LED green arrow is fitted that cannot be lamp monitored.
- **R,xA,xG - Red Only (Special3)**
"R,xA,xG" can be used with an On-Board Sensor to monitor just the vehicle red lamps when LED amber and green aspects are fitted that cannot be lamp monitored.
- **R,G,xW - Not Wait (Special4)**
"R,G,xW" can be used with an On-Board Sensor where the Red Man and Green Man aspects can be monitored but the WAIT indicator cannot (e.g. where LED WAIT indicators are fitted). It saves having to fit an External Sensor. However, it is unable to monitor the Red Man while the WAIT indicator is illuminated.

Note that the existing type "R,G" must only be used with an On-Board Sensor if the Amber output is never switched ON at the same time as the Red or Green outputs, or no lamps are connected to the Amber output. With the "R,G" type, the lamp monitor simply ignores the state of the Amber output but the On-Board sensor will see any current consumed by the Ambers while monitoring the Red or Green outputs, which could cause erroneous lamp faults to be logged.

These 'new' IC4 configuration options are available in all ST800/ST700 controllers fitted with PB800 issue 23 or later (circa 2005) and all ST900/ST750 controllers. These new lamp monitor types should not be needed on ST900ELV and ST750ELV Controllers because only compatible LED signals must be fitted to ELV Controllers.

To change the monitoring type of a sensor from the default "As Seq." to one of these new lamp monitor types, go to the IC4 screen "LMU – Sensors" and select the required type from the "Sensor Type" pull-down list. IC4 may list these types as Special 2, 3 and 4 (see figure 1 below).

Figure 1: IC4 Screenshot of Sensor Type Selection:



Related documents

667/HB/20168/000

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