

Application

Low profile emergency lighting module with DALI interface and automatic testing facility to cover 3 hour duration operating from batteries.

DALI interface terminals are provided to allow control and monitoring via a separate controller. With no DALI bus connected the unit operates in self-test mode with testing being conducted on a weekly functional and 52 week duration basis with adaptive duration testing feature to minimise risk.

Fitted with the unique easy addressing feature which uses the LED to indicate the DALI address during commissioning.

Monitoring

DALI interface for controlled monitoring and reporting.

During operation the battery, lamp and charge conditions are monitored along with functional and duration testing.

In the event of failure the bi-coloured LED will indicate the nature of the fault. This it will continue to do until the fault has been remedied. The testing regime will then continue.

Testing

When a DALI bus is not connected or when a command has not been received the COMECS will operate in the self testing mode and will conduct tests in accordance with the default times stored in the EEPROM. However it should be noted that in this case the delay time is set as default zero and all units could test at the same time. Test times can be changed with a command over the DALI bus.

Addressing

The COMECS includes the easy addressing system which allows addressing and identification by using the bi-colour LED in conjunction with the COMECS ADDRESS tool. Binary address codes given by the LED can be simply converted to the DALI addresses 0 to 63. For single handed addressing using this method it is necessary to send a broadcast ident command every 3 to 9 seconds. During this command the main fluorescent lamp will be switched off and the LED will flash the 6 bit binary address preceded by a 3 second start indication period.

Functional test

The time of day and frequency of the 30 seconds function test can be set by the DALI controller. If the COMECS unit is not connected to a DALI bus or has not received a DALI command the test will default to 30 seconds duration on a weekly basis.

Duration test

Test times can be set by the DALI controller. If the COMECS unit is not connected to a DALI bus or has not received a DALI command the test will be conducted every 52 weeks.

Prolong time

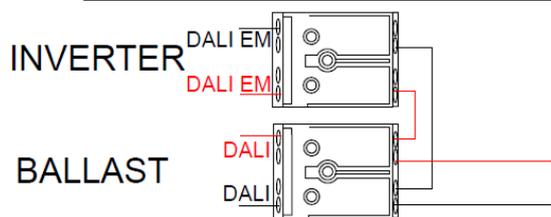
Prolong time can be set by the DALI controller. This is the delay time between return of the mains supply and the end of the emergency operation. The default prolong time is set as 0 minutes as specified within the DALI standard.

Battery

Recommended charge time is min. 24h. Battery should be fully charged before any emergency tests are performed.

DALI LUMINAIRES CONNECTIONS FOR COMECS AND DALI LUMINAIRES

N.B. IT IS IMPERATIVE TO ADD THE LINKS SHOWN BELOW IF USING DALI DIMMING AND EMERGENCY TEST ON THE SAME ADDRESSABLE CONTROL CIRCUIT



If in doubt please contact our Technical Support

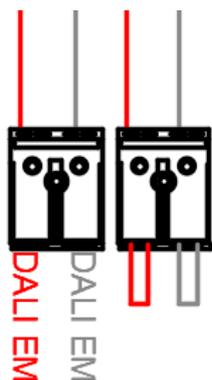
Telephone: 0161 331 5700
E-Mail: technical@whitecroftlight.com
<http://www.whitecroftlighting.com>

See reverse page for LED Status indicators



ORGANIC RESPONSE LUMINAIRE WITH COMEPCS (DALI) LUMINAIRE CONNECTIONS

The luminaire is supplied with terminal connections for both the COMEPCS inverter and Organic Response node. The Organic response terminal are supplied with the connections blocked to stop inadvertent connection. If the luminaire is to be used for emergency reporting on the Organic Response Portal system, then the terminations should be unblocked and connected as below.



Organic Response Terminations as supplied blocked to prevent inadvertent connection.

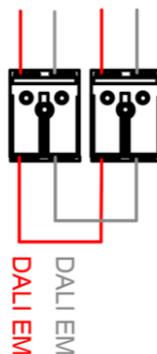


Image to show DALI links for Organic Response DALI system

STATUS INDICATION – TRIDONIC INVERTER

LED	STATUS
Permanent green	System OK
Fast flashing green	Functional test underway
Slow flashing green	Commissioning/Duration test underway
Permanent red	Lamp fault
Fast flashing red	Charging fault
Slow flashing red	Battery fault
Double pulsing green	Inhibit mode
Off	Loss of mains/battery supply

STATUS INDICATION – ELP INVERTER

LED	STATUS
Permanent green	System OK
Fast flashing green	Functional test underway
Slow flashing green	Commissioning/Duration test underway
Permanent red	Lamp/LED fault
Fast flashing red	Charging fault
Slow flashing red	Battery fault
Double pulsing green	Inhibit mode
Green with double off pulse	Rest mode
Alternate green/red flash	Identification Mode
Off	Loss of mains/battery supply

STATUS INDICATION – MACKWELL INVERTER

LED	STATUS
Permanent green	System OK
Fast flashing green	Functional test underway
Slow flashing green	Commissioning/Duration test underway
10 second green blink	Standby mode
Fast flashing red	Lamp/LED fault
Slow flashing red	Battery/Charging fault
Off	Loss of mains/battery supply

