



INSTALLATION & MAINTENANCE MANUAL

EMTWINST

GENERAL INSTRUCTIONS

These instructions should be read carefully and retained after installation by the end user for future reference and maintenance.

These instructions should be used to aid installation of the following product:

EMTWINST

SAFETY

- This product must be installed in accordance with the latest edition of the IEE Wiring Regulations (BS7671) and current Building Regulations. If in any doubt, please consult a qualified electrician
- Please isolate mains prior to installation or maintenance
- Check the total load on the circuit (including when this luminaire is fitted) does not exceed the rating of the circuit cable, fuse or circuit breaker
- Please note the IP (Ingress Protection) rating of this luminaire when deciding the location for installation
- This product is Class II double insulated
- This product is IP65 rated

INSTALLATION

- Provide power to the required point of installation. Suitable IP rated junction boxes should be used where required
- Unscrew the four fastening screws and remove the front cover (see Fig. 1)

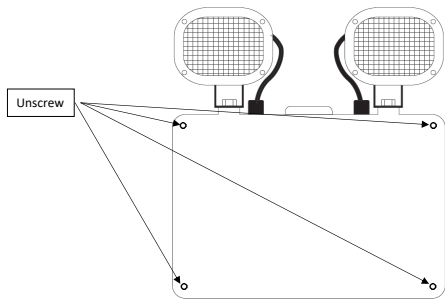
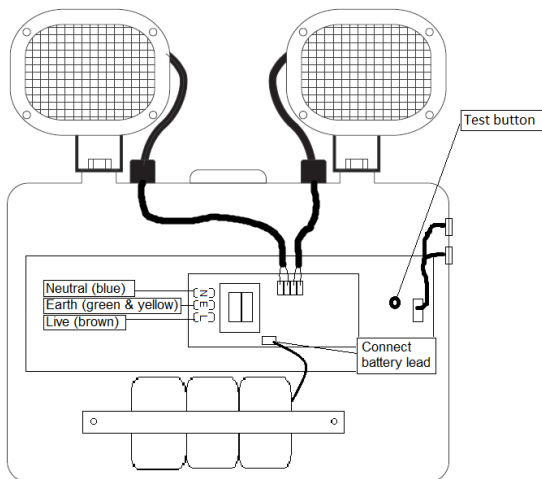


Fig. 1

- Drill the fixing holes in the rear of the fitting. Mark the location of the fixing holes, and drill ensuring not to infringe with any gas/water pipes or electrical cables
- Choose a suitable cable entry – 20mm drilling guides are provided on the rear or side of the unit
- Feed the mains cable into the fitting using a suitable cable gland (not supplied) to retain the IP rating
- Fix the luminaire to the surface using appropriate fixings
- Connect the luminaire to the mains supply ensuring the correct polarity is observed (see Fig. 2): Live (brown), Neutral (blue). The earth terminal is non-functional and only provided for convenience. Two cables can be inserted into the push-fit terminal block in order to achieve loop-in / loop-out wiring
- Connect the battery to the battery connector on the PCB (see Fig. 2)

Fig. 2



- Refasten the cover
- Switch on and check for correct operation ensuring the green indicator LEDs are illuminated
See below for operation of the self-test function

We recommend, on commissioning the installation, a minimum charge period of 24 hours before carrying out an emergency duration test

If the batteries have been left in a discharged state for an extended period, we recommend that one or more charge and discharge cycles are completed which should help to restore the battery capacity
The two LED indicators marked "Lamp 1" and "Lamp 2" show the status of each of the lamps. The LED indicator marked "Charge / Test (Green); Fault (Red)" illustrates the test status (see below).

SELF-TEST FUNCTION

This product is programmed to carry out its own self-test function according to the following programme:

24 hours after first power-on	3-hour duration test
then every 28 days	30 second monthly function test
and every 52 weeks	3-hour duration test

Following self-tests, the unit will revert to charging mode, and any faults will be indicated by the bi-colour LED indicator as follows:

LED INDICATOR	STATUS
Solid green	Normal conditions / charging / test successful
1 red flash	Battery fault
2 red flashes	Lamp fault
3 red flashes	Duration test failure

NB: either disconnect and restore power to the unit or hold the test button for 10 seconds to clear a fault indication once the condition is rectified

Tests can also be initiated manually using the test button (see Fig. 2):

TEST BUTTON	GREEN LED	STATUS
Short press	Off	Emergency mode while test button held in
Press for approx. 5 seconds	Slow flash	Emergency mode for 30 seconds (monthly function test)
Press for approx. 7 seconds	Fast flash	Emergency mode for 3 hours (duration test)
Press for approx. 10 seconds		End the duration test

WARNING

This product must be disconnected from the circuit if subjected to any high voltage or insulation resistance testing. Irreparable damage will occur if this instruction is not followed

GENERAL

The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire should be replaced.

Clean with a soft dry cloth only, do not use aggressive cleaning products or solvents which may damage the product.

This product is non-dimmable.

This product should be recycled in the correct manner when it reaches the end of its life. Check local authorities for where facilities exist.

The batteries in this luminaire are Nickel Cadmium and must be disposed of correctly. Please contact the local authorities for the disposal of this toxic waste.

WARRANTY

This product has a warranty of 3 years (excluding battery) from date of purchase. Failure to install this product in accordance with the current edition of the IEE Wiring Regulations, improper use, or removal of the batch codes will invalidate the warranty. If this product should fail within its warranty period it should be returned to the place of purchase for a free of charge replacement. ML Accessories does not accept responsibility for any installation costs associated with the replacement product. Your statutory rights are not affected. ML Accessories reserve the right to alter product specification without prior notice.

TESTING FOR EMERGENCY LUMINAIRES

Recommended routine test procedure in accordance with BS5266:

- Daily check – check status of bi-colour LED indicator
- Monthly functional test – the luminaire will perform this function without any action from the user. Alternatively, simulate a mains supply failure for approx. 30 seconds by operation of key switch, switching off circuit breaker or using test button. Ensure normal supply is restored after test and check status of bi-colour LED indicator
- Annual three-hour duration test – the luminaire will perform this function without any action from the user. Alternatively, simulate a mains supply failure for three-hour continuous test by operation of key switch, switching off circuit breaker or using test button. Ensure normal supply is restored after test and check status of bi-colour LED indicator
- If the luminaire fails any of the above tests, please contact a qualified electrician. Results should be recorded, even when obtained via the self-test function. See below for test record sheet

TEST RECORD SHEET

INITIAL COMMISSIONING 3 HOUR TEST		SIGNED				DATE					
		FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR		FIFTH YEAR	
MONTH	TEST	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE
1	FUNCTIONAL										
2	FUNCTIONAL										
3	FUNCTIONAL										
4	FUNCTIONAL										
5	FUNCTIONAL										
6	FUNCTIONAL										
7	FUNCTIONAL										
8	FUNCTIONAL										
9	FUNCTIONAL										
10	FUNCTIONAL										
11	FUNCTIONAL										
12	3 HOUR										

Installed by:

Installation date:

Contact number:

INTERNATIONAL
CONTACT DETAILS



230V
50Hz



IP65



0~
45°C
TA

ML
ACCESSORIES LTD



UK
CA CE



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ML Accessories Limited LU5 4LT
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