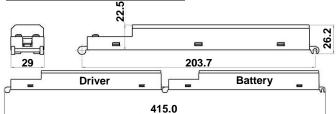


DESCRIPTION

A non-maintained class II emergency LED driver complete with battery pack in an articulated plastic housing designed for use with the Mackwell XYFI/LPHD LED lamphead. The driver has stabilised output current and reinforced insulation (SELV) between the supply and the battery circuit, and a battery charger with short circuit protection that will continue to operate when the short is removed.

XY-Fi – DRIVER AND BATTERY PACK

LUMINAIRE DIMENSIONS (mm)



230Vac

SPECIFICATION

Supply voltage Supply frequency Supply current Battery charge current Battery charge voltage Battery discharge current 0.25 to 0.45A Battery discharge voltage 2.4 to 4.4V Rated duration Ambient temperature (ta) Max case temp (tc) Conductor size Weight of control gear Weight of lamphead

50/60 Hz 30mA maximum 200 to 250mA 3.0 to 4.6V 3 hours 0°C to +45°C 70°C 0.5 - 1.5mm² 240g (incl. battery) 20g

BATTERIES

The driver includes a rechargeable 3.6V 2.2Ah NiMH battery pack for 3-hour operation. When the driver no longer meets 3 hours duration replace the batteries, observing the battery polarity, as permanent damage to the control gear will occur if they are reversed.

RELEVANT STANDARDS

EN 61347-2-7 Lamp control gear EN 61347-2-13 LED control gear EN 60598-2-22 Luminaire BS5266-1:2005/IEC62034 Automatic testing

ELECTRICAL INSTALLATION

The driver must be installed by a qualified person in accordance with the current building and wiring regulations.

Drivers comply with the EMC directive in both modes of operation, mains and emergency. The battery lead should be connected only at the time of commissioning. Remove end cover, to attach mains supply & data cables (if applicable). When the mains supply and battery leads are connected, both white covers should be screwed into place to protect from electric shock.

OPERATION (XY-Fi /D1 DRIVER ONLY)

The driver automatically tests the performance of the emergency luminaire in accordance with BS5266-1:2005 and IEC62034.

Automatic Operation - Commissioning Test

Connection of the mains supply will initiate commissioning where the battery will remain on charge for an uninterrupted 24 hours. An interruption of the mains supply will reset the counter to zero. After 24 hours the luminaire will be put into a duration test for the rated period, immediately followed by another 24hr charge period.

If the mains supply is to be interrupted for more than 7 days, then the battery MUST be disconnected.

Automatic Operation - Functional Test

A 30 second functional test is carried out at 30 day intervals. This test can also be initiated manually by switching the mains supply OFF/ON twice within 5 seconds.

Automatic Operation - Duration Test

A full rated duration test is carried out automatically at yearly intervals.

LED Indicator

A bi-colour LED indicates the status of the module as follows:

Green	10 second 'pulse'	Normal standby mode
	Slow flash	Commission mode or Duration Test in progress
	Fast flash	Functional Test in progress
Red	Slow flash	Charging or battery fault
	Fast flash	Lamp fault

Note: Slow flash = 0.5Hz, Fast flash = 2.5Hz

AUDIBLE ALARM

An audible alarm will sound if a fault is found during test and will continue to give 3 beeps every 35 minutes until the fault is rectified and the unit is reset.

Note that start times of the tests are set automatically to ensure random testing of the units. As a consequence, tests may occur at any time and caution should be exercised in situations where this may be inconvenient, such as hotels and hospitals.

USER RESET FACILITY

A recorded fault condition may be cleared by switching the permanent supply OFF/ON twice within 5 seconds. A Functional Test is then carried out automatically to verify correct system operation.

CONNECT A DALI SYSTEM (XY-Fi /D1 DRIVER ONLY)

This allows two wire communication between the module and a central monitoring or control system designed to meet the requirements of DALI standard IEC 62386. For a full explanation see "Mackwell Emergency Modules with DALI Interface -Description and Operating Notes", part number 39795.

IMPORTANT

NC terminals are not SELV rated and must not be connected to Wiring to the "NC" terminals must be in SELV circuits. accordance with mains wiring and isolation requirements.

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Issue 2



INSTALLATION INSTRUCTIONS XYFI/LPHD PARTS LIST

Refer to website www.mackwell.com for specific data

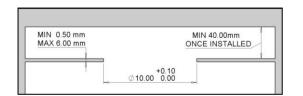
DESCRIPTION

The XYFI/LPHD LED lamphead comprises a 3W LED, bi-colour status indication LED and wiring loom.

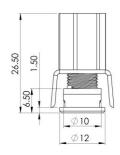
WIRE CONFIGURATION

	D1 VARIANT	NON-AUTOTEST VARIANT
LED+	RED	RED
LED-	BLACK	BLACK
IND+	BROWN	BLUE
IND-	BLUE	BROWN

MOUNTING REQUIREMENTS



LAMPHEAD DIMENSIONS (mm)

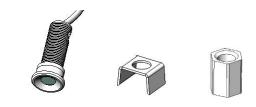


WARRANTY

This product is guaranteed for three years and covers faulty workmanship and materials.

The guarantee on NiMH batteries is one year This "Return to Base" warranty requires that the product is used within the terms and conditions in our literature and on our website. Products returned to us under warranty must be carriage paid. Mackwell Electronics Ltd. accept no liability for costs incurred.

Refer to product literature at <u>www.mackwell.com</u> or contact our technical department for more details.



ASSEMBLY

