

LED Maintained DALI/Self-Test Emergency Control Gear

LM Range

The ELP **LM** range provides maintained (mains and emergency) operation of single high power LEDs (or up to 4 connected in series).

The **LM** range can be connected to a DALI system, or can function in a stand-alone Self-Test mode.

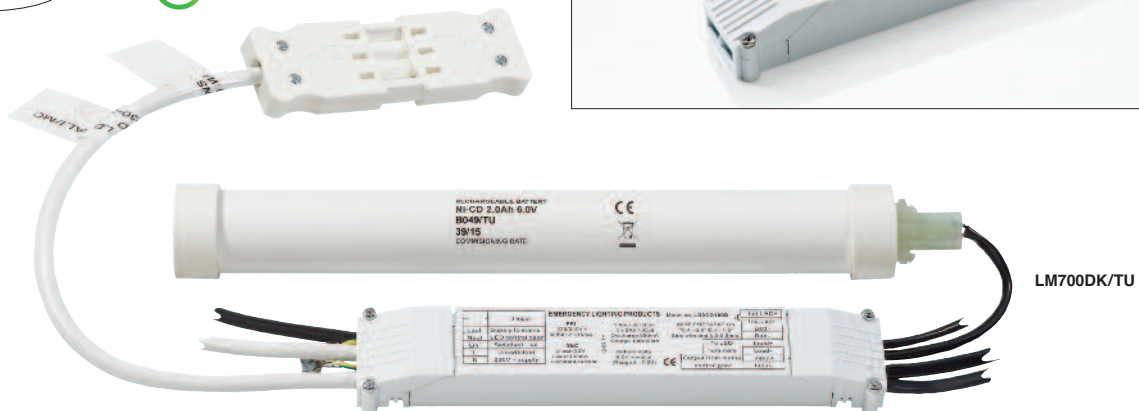
The control gear incorporates an LED driver circuit, integral charger and a high temperature Nickel Cadmium battery. In the event of a mains failure, the control gear operates the LED (or string of LEDs) at the full light output, for a duration of 3 hours.

The **LM** range can switch the high power LEDs on and off in mains operation using the switch live input, the range is also DALI switchable in mains operation, if the switched live is present.

The **LM** control gear is designed for ease of installation offering compact dimensions and push wire terminals. They are also available with cable restraints providing an ideal solution for independent control gear.

In Self-Test mode the function and duration tests will take place at randomised times. **NB:** If required, testing can be programmed to occur at a designated time by turning the unswitched supply off and on 3 times in 10 seconds at the required time.

Note: All **LM** modules can be equipped with **SurePath BLE** Bluetooth addressable Gateway modules. *See Data Sheet.*



ORDER CODES FOR KITS

| | | |
|------------------|----------------|---------------------------------------|
| 4 x LED at 80mA | LM80DK | 3 x 1.5Ah sub-C NiCd cells |
| 1 x LED at 240mA | LM240DK | 4 x 800Ah AA NiCd cells |
| 1 x LED at 350mA | LM350DK | 3 x 1.8Ah sub-C NiCd cells |
| 1 x LED at 500mA | LM500DK | 4 x 1.8Ah sub-C NiCd cells |
| 1 x LED at 700mA | LM700DK | 5 x 1.8Ah sub-C NiCd cells or LiFePO4 |

Suffix:-

/TU

Battery in protective tube for remote mounting (e.g. mounting in ceiling void)

SPECIFICATION

| Section | Subject | Plastic housed module |
|--|---|--|
| Environmental | Protection against electric shock | Class III Secondary outputs SELV equivalent |
| | Ingress protection | IP20 |
| | Module rated operating ambient temperature) | -20 to 50°C |
| | Battery rated operating ambient temperature | 0 to 55°C |
| | Maximum case temperature | 60°C |
| Mains operation | Rated voltage supply | 220/240 VAC |
| | Mains frequency | 50/60 Hz |
| | Mains supply current | |
| | LM80D | <20mA |
| | LM240D | <22mA |
| | LM350D | <24mA |
| | LM500D | <28mA |
| | LM700D | <40mA |
| | Mains supply power | |
| | LM80D | 2.3W |
| | LM240D | 2.9W |
| | LM350D | 3.6W |
| | LM500D | 4.7W |
| | LM700D | 6.3W |
| | Power factor | >0.6 |
| Module output current | | |
| LM80D operating up to 4 x LED at 80mA | 80mA | |
| LM240D operating 1 x LED at 240mA | 240mA | |
| LM350D operating 1 x LED at 350mA | 350mA | |
| LM500D operating 1 x LED at 500mA | 500mA | |
| LM700D operating 1 x LED at 700mA | 700mA | |
| LED indicator | 2 wire bi-colour red/green | |
| Emergency operation | Emergency duration | 3 hours |
| | Battery chemistry type | NiCd |
| | Number and type of cells | |
| | LM80D | 3 x 1.5Ah sub-C cells |
| | LM240D | 4 x 800Ah AA cells |
| | LM350D | 3 x 1.8Ah sub-C cells |
| | LM500D | 4 x 1.8Ah sub-C cells |
| | LM700D | 5 x 1.8Ah sub-C cells |
| | Battery recharge period | <24 hours |
| | Battery 2 stage charge — boost/trickle | |
| | 1.5Ah sub-C cells | 75mA/50mA |
| | 800Ah AA cells | 40mA/30mA |
| 1.8Ah sub-C cells | 90mA/60mA | |
| Battery discharge current range (at nominal battery voltage) | | |
| 1.5Ah sub-C cells | 350mA | |
| 800Ah AA cells | 200mA | |
| 1.8Ah sub-C cells | 450mA | |
| Module output current | | |
| LM80D operating up to 4 x LED at 80mA | 80mA | |
| LM240D operating 1 x LED at 240mA | 240mA | |
| LM350D operating 1 x LED at 350mA | 350mA | |
| LM500D operating 1 x LED at 500mA | 500mA | |
| LM700D operating 1 x LED at 700mA | 700mA | |
| Module outside dimensions | (L)178mm x (W)30mm x (H)21mm | |
| Mechanical | Fixing centres | 174mm |
| | Electrical connections | Push wire terminals |
| Standards compliance | EN61347-1, EN61347-2-7, EN61347-2-13 and EN62384 | Yes |
| | EN60598-2-22 (clauses 22.6.7, 22.6.9, 22.6.10, 22.6.11, 22.6.12, 22.6.13, 22.17, 22.18) | Yes |
| | EN62034, EN62386-101, EN62386-102 and EN62386-202 | Yes |
| | EN55015 and EN61547 | Yes |
| | Marks CE | Yes |

Note: Values are subject to change.

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