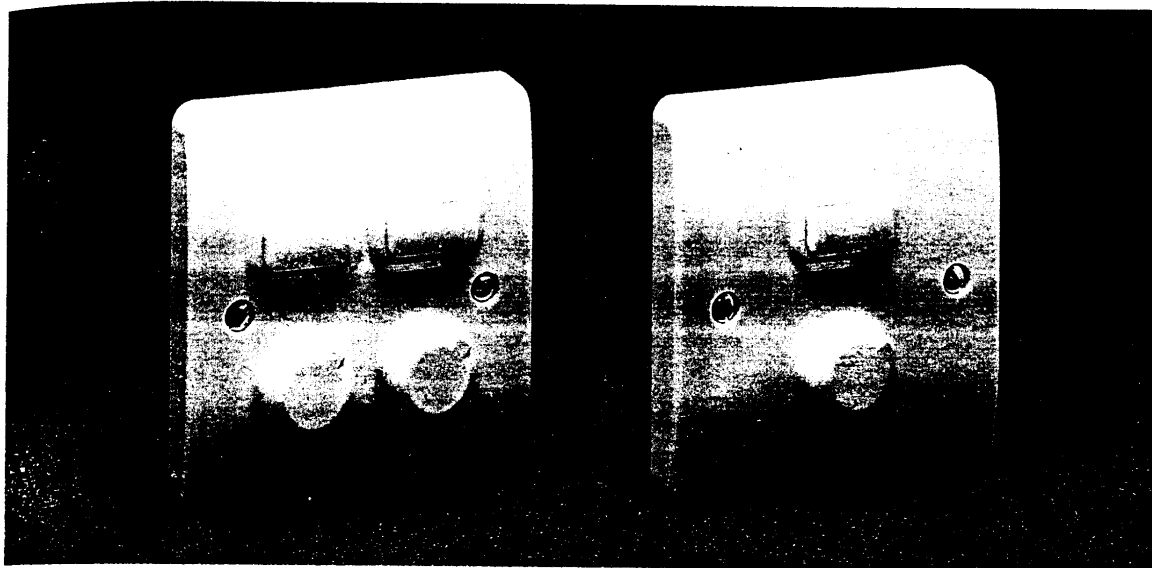


987-360.

Dimmer Switches

LOGIC
 PLUS


2.13

Wiring Devices: Logic Plus

Product range

| | List No. |
|--|-----------|
| Tungsten filament (GLS) lamps | |
| 500 W 1 gang dimmer | K1501 WHI |
| 250 W 1 gang dimmer | K1521 WHI |
| 2 x 250 W 2 gang dimmer | K1522 WHI |
| Low voltage tungsten halogen (LVTH) lamps | |
| 500 VA 1 gang dimmer | K1701 WHI |
| 250 VA 1 gang dimmer | K1721 WHI |
| 2 x 250 VA 2 gang dimmer | K1722 WHI |

Standards and approvals

Logic Plus dimmer switches comply with the following standards: IEC 669-2-1, BS EN50082-1.

Description

These units are designed for dimming either tungsten filament or low voltage tungsten halogen lamps using one or two-way lighting circuits (refer to above table to select correct List No.). Mains voltage tungsten halogen may also be dimmed but it is not recommended due to shortening of lamp life.

The dimmer face plates incorporate the design features common to the Logic Plus range.

Pattresses are supplied with all units for use when suitably deep mounting boxes are unavailable.

Logic Plus dimmers may be used to replace a normal light switch.

Operation

All dimmers have separate on/off and dimming control knobs.

Incorporated in the dimming control knob is a raised portion which indicates light level setting and prevents over travel.

Soft start feature

At switch on, the light level gradually increases to the pre-set level (between 1 and 3 seconds operation). This 'soft start' will substantially increase the normal life of a tungsten filament bulb.

Minimum light level

At 'minimum' setting of the rotary knob, the lights do not completely extinguish.

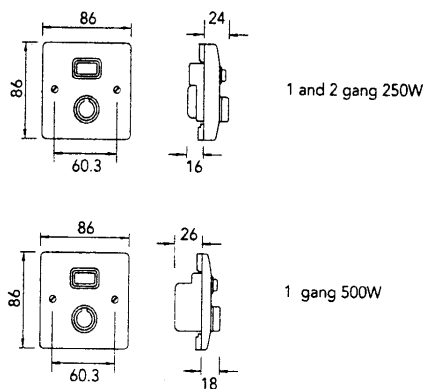
Features

- Latest technology micro controller provides soft start and thermal monitoring
- Unique thermal monitoring system automatically dims lights in the event of electrical overload resulting in high ambient temperature in the dimmer module
- Micro controlled circuitry automatically powers down the dimmer under detection of DC energising under fault conditions of inductive loads such as non-electronic transformer for low voltage tungsten halogen lamps.
- Can be used to replace an ordinary light switch in a 1 or 2 way switched circuit, within the wattage of the dimmer used
- Separate on/off and light level controls
- Visible indication of light level setting
- All units supplied with optional pattresses



Boxes

| List Number | Box List No. | | | |
|-------------|---------------|-----------|------------------|-----------|
| | With Pattress | | Without Pattress | |
| K1501 WHI | 861 ZIC | K2140 WHI | 866 ZIC | K2031 WHI |
| K1521 WHI | 3995 ZIC | K2160 | 861 ZIC | K2140 WHI |
| K1522 WHI | 3995 ZIC | K2160 WHI | 861 ZIC | K2140 WHI |
| K1701 WHI | 861 ZIC | K2140 WHI | 866 ZIC | K2031 WHI |
| K1721 WHI | 3995 ZIC | K2160 WHI | 861 ZIC | K2140 WHI |
| K1722 WHI | 3995 ZIC | K2160 WHI | 861 ZIC | K2140 WHI |

Dimensions**Installation**

Logic Plus dimmer switches are two wire system products and can therefore be used to replace a normal light switch, with one or two way switching, operating load within the power rating of the dimmer.

The LVTH dimmers are intended for use only with systems that incorporate a wire wound transformer (NOT electronic transformers). The transformer MUST be of a type recommended for use with phase control dimmers and have fuse protection on both primary and secondary circuits. It MUST have inbuilt thermal protection and be loaded to operate within the minimum and maximum load ratings of the dimmer.

The low voltage lighting system should comply with the EMC Directive.

To avoid premature failure of the dimmer and lighting system, do not use the dimmer with fluorescent lamps or energy-saving lamps.

The pattress (supplied) need only be used where a sufficiently deep mounting box is not available.

Full installation details are enclosed with all products.

Cable Management

Logic Plus dimmer switches can be mounted in a variety of MK trunking systems. See main Catalogue for further details.

Technical specification**Electrical**

| | | |
|--------------------|---|---------|
| Min. load: | K1501, K1521, K1522 | 40W |
| | K1701, K1721, K1722 | 40VA |
| Max. load: | K1501 | 500W |
| | K1521 | 250W |
| | K1522 | 2x250W |
| | K1701 | 500VA |
| | K1721 | 250VA |
| Contact gap: | K1722 | 2x250VA |
| | (all types) | 3 mm |
| Voltage rating: | 240V ± 10%, 50 Hz ± 2% | |
| Terminal capacity: | 1 x 2.5 mm ² / 2 x 1.5 mm ² | |
| Terminal screws: | 4 mm blade screwdriver | |

Physical

| | |
|-----------------------------|-------------|
| Operating temperature: | 0 - 30°C |
| IP rating: | IP4X |
| Max. installation altitude: | 2000 metres |