

L5106D Range 6 Channel Professional Dimmers

C-Bus®

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LIVING ELECTRICAL



The C-Bus L5106D range of Professional dimmers are high powered 6 channel dimmers designed for commercial applications such as hotels, restaurants and office buildings.

The dimmers are C-Bus controlled, high power, multi phase control units, compatible with a wide range of load types, including neon.

Dimming is achieved through phase control techniques creating a highly efficient range of dimmers.

Channel derating for use with electronic transformer loads is not required. Each channel is capable of supporting full load current.

The L5106D range of Professional dimmers provides on-board MCB protection, thermal overload protection and also accommodates the RCD requirements as per AS/NZS3000:2007.

The dimmers contain modular output channel cards of various ratings, allowing customisation to suit site needs.

A maintained active output is provided on each channel for emergency lighting.

Each channel card has a bypass switch which permits direct local override of the lighting circuit.

In the event of an over-temperature condition, such as one caused by excessive load current being drawn, the dimmer channel reduces the output power as long as the condition exists.

The Professional dimmer is designed and tested for a wide range of international markets with comprehensive EMC and electrical safety testing and is fully ROHS compliant.

- Soft start load turn-on protects lamp filaments.
- Voltage compensation to minimise load brightness variation if the AC supply voltage drifts.
- Filtering reduces supply voltage signalling effects.
- Linear output load power following input control.

- C-Bus network burden and system clock generator.
- After mains fail, dimmers return to previous or preset values.
- Local C-Bus override switches on front panel.
- Channel Status indicators on front control panel.
- On-board MCB and optional RCD protection.
- Mounting brackets included for ease of installation.
- Generous load and mains supply terminals.
- Emergency lighting output for each channel.
- Manual dimmer bypass switch on all channels.
- Fan-free operation, reduces maintenance requirements.
- Suitable for single or three phase track lighting applications with optional three phase MCBs and RCDs
- Complies with Australian (AS/NZS CISPR 15:2002) and International standards for light dimmers as below.

Accreditations	C-Tick	CE
EMC	AS/NZS CISPR14-1 CISPR15	EMC Directive 2004/108/EC EN 60669-2-1 Clause 26.1, 26.2 EN 55014-1, 55015, 61000-3-2, 61000-3-3, 61000-3-5, 61000-3-11
Low Voltage		EN 60439-1, 60669-2-1
Electrical Safety	AS/NZS 3439-1 IEC 60669-2-1	IEC 60439-1, 60669-2-1
ROHS		2002/95/EC

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L5106D Range 6 Channel Professional Dimmers

Catalogue Numbers

6 Channel	Leading Edge	Leading Edge + RCD*
20 A	L5106D20LP	L5106D20LPR6
10 A	L5106D10LP	L5106D10LPR3
5 A	L5106D5LP	L5106D5LPR3
3 A	L5106D3LP	

*20 A and 16 A RCD models include 6 × 2 pole RCBOs (Combination RCD and MCB)

*10 A and 5 A RCD models include 3 × 2 pole RCCBs (RCD Only, 2 channels / RCD)

*3 A model requires external RCD protection

Ratings

Catalogue Number	Max. Load Current/Phase
L5106D20LP	40 A, 3 Phase
L5106D10LP	20 A, 3 Phase
L5106D5LP	30 A, 1 Phase 10 A, 3 Phase
L5106D3LP	20 A, 1 Phase

Electrical Specification

Parameter	Description
Load terminal standby leakage current	< 10 mA leading edge < 1 mA trailing edge
AC supply voltage	240/415 V AC
AC supply frequency	47 to 53 Hz
Number of input phases	1 Phase (3 Amp model) 1 or 3 Phase (10 Amp model) 3 Phase (other models)
Minimum load/channel	20 W for incandescent
Dimming technology	Leading edge 3-5 A Triac Leading edge 10-20 A Dual SCR
Soft-start ramp time	0.5 sec
Load current rise time	200 μs
Power control range	1.5% to 95%
Standby AC supply current	90 mA base current 75 mA each LE Channel
Short circuit withstand strength	6 kA*
Rated insulation voltage	500 V
Dielectric test voltage	2500 V

*Note for 3 A model installer must connect dimmer to mains with protection rated at 20 A per phase 6 kA short circuit withstand strength

Dimensions

Catalogue	Weight (kg)	Dimensions W × H × D
L5106D20LP	27	455 × 451 × 164 mm
L5106D10LP	21	412 × 451 × 164 mm
L5106D5LP	18	405 × 451 × 115 mm
L5106D3LP	16	405 × 358 × 115 mm

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