

## LD11™



### EN Remote control On, Off and Dim

- Switches and dims lighting circuits up to 700W.
- Suitable for 230V and low-voltage lighting with a transformer, including halogen lighting.
- Remote control via the mains using Marmitek X-10 Commands and with one or more momentary switches.
- Can be used in combination with 'designer' switching material.
- Soft start and smooth dimming features, remembers the last dim setting.
- Can be controlled wirelessly using an X10 RF signal (e.g. Marmitek RF remote control Easy Icon10RF, EasyControl8RF and EasyTouch35, Marmitek wall switch SS13, Marmitek motion detector MS13, etc.)
- The module responds to the Marmitek X-10 Commands 'On', 'Dim', 'Bright', 'All Lights On', 'Off' and 'All Off'. The module can be mounted on the DIN Rail and built into a separate casing or into the distribution panel.

### DE Fernbedient ein-/aus und dämpfen

- Schaltet und dimmt Beleuchtungen bis 700 W.
- Geeignet für Beleuchtung auf 230 V und für Niedervoltbeleuchtung mit Trafo, einschliesslich Halogenbeleuchtung.
- Kann mit Befehlen eines X-10 Senders über das Lichtnetz und mit einem oder mehreren Pulsgebern fernbedient werden.
- Kann in Kombination mit 'Design'-Steckdosen verwendet werden.
- Ausgestattet mit Soft-Start und Soft-Dimm, sowie Speicher für den letzten Dimmstand.
- Kann mit einem X10 RF Signal drahtlos ferngesteuert werden (u.a. Marmitek RF Fernbedienung Easy Icon10RF, EasyControl8RF and EasyTouch35, Marmitek Wandschalter SS13, Marmitek Bewegungsmelder MS13, usw.)
- Das Modul reagiert auf die Marmitek X-10 Befehle 'An', 'Alle Lampen an', 'Aus', 'Alles aus', insofern die Einstellung von Hauscode und Sender identisch sind.
- Das Modul kann für DIN-Schienen verwendet werden und kann in ein abschliessbares Gehäuse oder einen Schaltschrank eingebaut werden.

### FR En marche, arrêt et mettre en code à distance

- Change et met en code les circuits d'éclairage jusqu'à 700W.
- Convient à l'éclairage sur 230V et à l'éclairage halogène à basse tension.
- Peut être activé à distance avec les commandes X10 Marmitek par le réseau électrique et avec 1 ou plusieurs boutons à impulsion.
- Peut être utilisé en combinaison avec le matériel interrupteur « design ».
- Softstart et Softdim, position de mémoire pour la dernière position code
- Peut être activé sans fil avec un signal X10 RF (entre autres les télécommandes Marmitek RF Easy Icon10RF, EasyControl8RF et EasyTouch35, l'interrupteur mural Marmitek SS13, le détecteur de mouvement Marmitek MS13, etc.)
- Le module répond aux commandes Marmitek X-10 "ON", "Toutes lumières allumées", "OFF" et "Tout éteint".
- Le module se monte sur un rail DIN et peut être encastré dans un boîtier fermé ou dans une armoire électrique.

### ES Encender, apagar y regular a distancia

- Conmuta y regula circuitos de iluminación hasta 700 W.
- Conveniente para la iluminación de 230V, para la iluminación de baja tensión con transformador y para la iluminación halógena.
- Puede controlarse a distancia con Marmitek comandos X-10 por la red de alumbrado o utilizando uno o varios conmutadores de impulsos.
- Puede emplearse en combinación con conmutadores de "diseño".
- Memoria para guardar la última posición de regulación. Softstart y softdim.
- Puede controlarse inalámbricamente con una señal RF X-10 (e.o. Marmitek mandos a distancia RF Easy Icon10RF, EasyControl8RF y EasyTouch35, Marmitek conmutador de pared SS13, Marmitek detector de movimiento MS13, etc.).
- El módulo reacciona a los Marmitek comandos X-10 "Encendido", "Encender todas las Luces", "Apagado" y "Apagar todas las Unidades".
- El módulo es conveniente para el montaje en carril DIN y puede montarse en un gabinete cerrado o en la caja de distribución.

### IT Attivare, disattivare e regolare l'intensità di luce a distanza

- Conmuta e varia l'intensità di luce dei circuiti d'illuminazione fino a 700W.
- Adatto per lampade a 230V e per lampade a bassa tensione con trasformatore, incluse le lampade alogene.
- Controllabile a distanza sulla rete elettrica, con uno o più interruttori a pulsante, grazie ai comandi X-10 di Marmitek.
- Può essere usato in combinazione con gli interruttori di design.
- Funzione memoria per l'ultima impostazione dimmer. Softstart e softdim.
- È possibile controllarlo tramite un segnale X-10 RF (p.e. i telecomandi RF di Marmitek Easy Icon10RF, EasyControl8RF e EasyTouch35, l'interruttore a muro SS13 di Marmitek, il rivelatore di movimento MS13 di Marmitek, ecc.).
- Il modulo reagisce ai comandi Marmitek X-10 "On", "All lights on", "Off" e "All Units Off".
- È possibile montare il modulo su una guida DIN e in un alloggiamento chiudibile o armadio di comando.

### NL Op afstand aan, uit en dimmen

- Schakelt en dimt verlichtings-circuits tot 700W.
- Geschikt voor verlichting op 230V en voor laagspanningsverlichting met trafo, inclusief halogeenverlichting.
- Kan op afstand aangestuurd worden met Marmitek X-10 commando's over het lichtnet en met één of meerdere pulsdrukkers.
- Kan gebruikt worden in combinatie met "design" schakelmateriaal.
- Voorzien van soft start en soft dim en geheugen voor de laatste dim stand.
- Kan draadloos met een X10 RF signaal worden aangestuurd (o.a. Marmitek RF afstandsbedieningen Easy Icon10RF, EasyControl8RF en EasyTouch35, Marmitek wandschakelaar SS13, Marmitek bewegingsmelder MS13, etc)
- De module reageert op Marmitek X-10 commando's "Aan", "Alle verlichting aan", "Uit" en "Alles Uit".
- De Module is bedoeld voor DIN rail montage en kan in een afsluitbare behuizing of schakelkast gemonteerd worden.

# LD11™

The Marmitek X-10 DIN rail dimmer (LD11) is a 700W receiver module that serves as a remote controlled dimmer. Mounted on the DIN rail in the mains distribution box, it dims/switches hard-wired circuits with several wall switches (e.g. living room lighting). It is designed to operate with 230V and 12V lighting including halogen. The LD11 can be turned on/off, and brightened/ dimmed either by an X-10 controller or by external momentary action switches connected to terminal 2 (maximum connected cable length is 30 metres). The LD11 responds to STANDARD X10 protocols: "All lights on" or "All units off" from any X-10 controller set to its house code, regardless of unit code. Or alternatively, by individual unit control using "On", "Off", "Bright" and "Dim". The LD11 also responds to Extended X-10. Combined with the memory dim feature, the LD11 can change the room lighting instantly or progressively. This unit is especially designed for scene lighting where very often the lighting is 12V halogen, commonly used in living room, study/reading rooms.

- Operation of the unit with Marmitek X-10 Commands takes place via the mains wires, which means no extra wiring is necessary.
- Can be regulated from 0% lighting to the desired dim setting.
- With the module you can control and dim lights using the Marmitek X-10 system.
- There are terminals for external momentary switches (of any type or brand), which means the module can also be operated manually and used in two way switch schemes.
- Momentary switches attached to the module cannot have a glow lamp in series.
- The dimmer is also suitable for use with (low voltage) halogen lighting and most electronic transformers suitable for phase dimmers (i.e. Osram). As not every (electronic) transformer can be dimmed in this way, it is recommended that the combination is checked before installing the system.

## Inputs

The LD11 DIN Rail module has 1 input to control the built-in dimmer module.

To control the built-in dimmer module using 1-pole momentary switches (normally open contact)

To send ON/OFF/BRIGHT/DIM command to control the built in dimmer module, using one 1-way momentary switch (normally open contact).

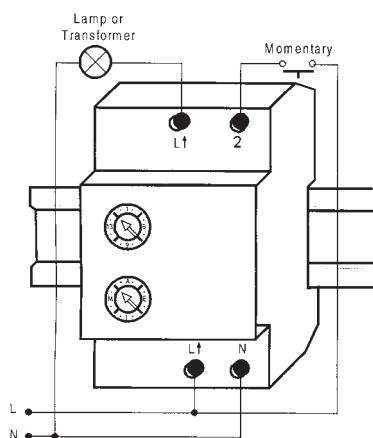
How to use a Push-to-make-switch without intermediate setting:

- Short press is ON,
- keeping the button pressed is DIM, BRIGHT, DIM...
- second press is OFF.

More switches can be used in parallel.



## Wiring diagram



## Also available

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Din-rail Modules



Micro Modules

## Technical data

Supply voltage	230V +10% -15% 50 Hz
Electricity consumption	< 0,5 W
Switching power	40W/230V to 700W/230V for incandescent lamps and low voltage halogen lights with transformer.
dimming	softstart, softdim and a memory setting for the last dim level, programmable start and stop rates with extended X-10 protocol.
Regulating time	3,5 sec ±0,2 sec from fully on (100%) to off (0%)
Fuse	2,5 A (T)
Signal sensitivity	15 mVpp min, 50mVpp max at 120 kHz
X-10:	All lights on, all lights off, all units off, bright, dim, on , off
Terminal 2	maximum connected cable length is 30 metres
Input Impedance	> 60 Ohm (P-N) at 120 kHz
Terminals	screw type terminals for phase, neutral, switched phase, control 2.
Ambient temperature	-10° C to +50°C (operation) -20° C to +70° C (storage)
Dimensions:	50x80x70mm

## Set includes



1x LD11



1x User Manual  
English, Deutsch  
Français, Español,  
Italiano, Nederlands

## Order information

LD11™	Art. nr. 08932
Universal box size (LxWxH)	90 x 74 x 144 mm with euroslot

