Dimming Control

QD12 – QD24 Dimmers

The Compact range of modular dimmers come in two versions: either with 12 or 24 circuits each of ten amps with MCB output circuit protection.

They are highly reliable, quick and easy to install and take up less room in electrical cupboards than many other manufacturers units.

The control is via a single DMX512 cable and scene setting is with the Oxtron SceneMaster switch plate.

- Very cost effective
- Compact Digital Design
- MCB Protection on all channels
- DMX 512 input
- Emergency Lighting Terminals on all channels
- Individual Channel Test Facility
- Optional 4 pole RCD (pulsating DC) or 4 pole isolator
- Optional 0 to +10V analogue input card
- Comes with stainless steel mounting bracket for simple wall mounting
- QD12: weight:18kg, H x W x D:440mm x 450mm x 160mm
- QD24: weight:30kg, H x W x D:650mm x 450mm x 160mm
- Control via Oxtron SceneMaster switch plate

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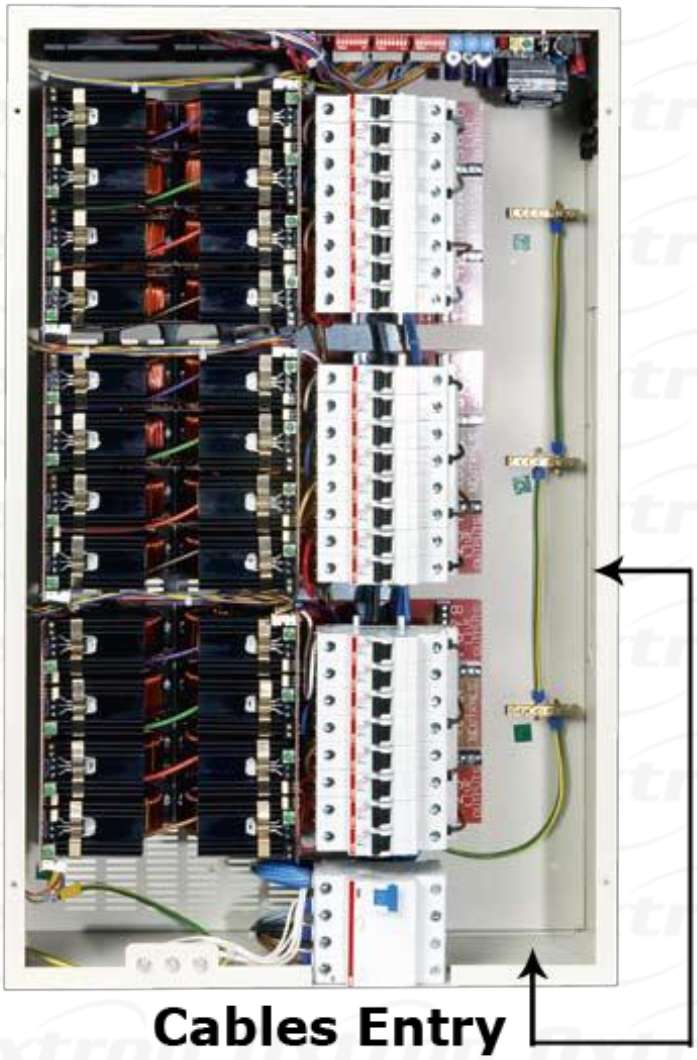
QD12 and QD24 Channel Dimming/Switching pack

The QD packs are available with 12 or 24 channels, each being capable of handling up to 12 amps for either dimming or switching. The packs are designed to be mounted vertically, but may be mounted horizontally if space or trunking runs dictate.



Channel protection is via C13 circuit breakers with the option of a four pole DC sensitive RCD on the incoming supply. Cooling is achieved by two thermostatically controlled fans.

As the QD packs will find their natural use in multichannel venues, DMX 512 is the standard operating control for convenience but an analogue 0 to 10V input card is available as an alternative.

Rotary switched are used for setting the DMX address and accessing test feature whilst Dil switches are used for selecting dimming or switching operation on each channel.

Emergencylighting terminals are fitted to each channel of the pack. These remain live unless the circuit breaker trips or the channel supply fails. Battery operated emergency lighting equipment may then be activated via a change over relay with mains rated coil.

Triac replacement is via 3 way screw terminal block and a spring clip which attaches the device to the heatsink. Triac BTB24600B or equivalent.

Preheat control is provided via 3 presets, 1 per phase: 0 to 25% range.

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Technical Specifications

(Figures in brackets apply to QD12 only)

INPUT SUPPLY

Three phase(star) with neutral and earth, connected 8(4) channels per phase(phasing immaterial) or single phase connection to all 24(12) channels with neutral and earth via three supply connectors.

OPERATING VOLTAGE:215 to 245V AC or 105 to 120V AC.

FREQUENCY: 46 to 64Hz (auto tracking).

MAXIMUM CURRENT/PHASE: 80(48)A AC or with internal RCD 63A AC.

ELECTRONIC SUPPLY: Derived from phase three and protected by 100mA anti-surge 5 x 20mm glass fuse.

NOTE: When using the QD24 from a single phase supply, in order to keep the neutral current within DIN rail specification, the total supply current should not exceed 150A AC.

OUTPUTS

24 (12) channels of either zero voltage switching or phase controlled dimming (linear curve)

CHANNEL RATING: 12A AC / 2500W per channel

OUTPUT CURRENT RISETIME: >170 microseconds

MINIMUM RECOMMENDED LOAD: 100W per channel

EMERGENCY LIGHTING OUTPUT: 1A per channel

RCD OPTION

4 pole 63A AC per pole, 30mA pulsating DC sensitive residual current device

ISOLATOR OPTION

4 pole 100A device

OVERCURRENT PROTECTION

C13 circuit breaker on every channel (optional neutral switching breakers available to special order). Lower current can be fitted if required on any number of channels (4A, 6A or 10A).

INPUT

DMX control to USITT DMX512 via 2 sets of screw terminals (5 pin XLR connectors available to special order) or alternatively, analogue 0 to +10V input control range via screws terminals

OPERATION

Dimming or switching operation individually selectable for each channel. DMX start address from 1 to 512 settable on rotary switches. If DMX fails, last level is held indefinitely until DMX input restored or power removed.

TEST MODE

When DMX address is set to 950 external input is disabled and all channels are at 100%

INDICATORS

Neon phase indicators. Power indicator. Channel status indicators. DMX data indicator.

PHYSICAL / ENVIRONMENT

Rugged welded steel chassis construction. Stainless steel hanging bracket eases wall mounting.

DIMENSIONS (Including flanges)

H x W x D: 650mm x 450mm x 160mm (440mm x 450mm x 160mm)

WEIGHT:30Kg (18Kg)

Mounting area required including 125mm clearance between fans and any obstruction: 760mm x 580mm (550mm x 500mm)

Recommended ambient operational temperature range 0 to 35degrees Celsius

COMPLIANCE

Complies with all current relevant parts of EN50082-1 for immunity, EN50081-1 for emissions and to EN60439 / EN60950 for safety.

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