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PROFESSIONAL
Lighting Accessories

Single Channel 20A Dimming/Switching Pack **PRO-DIM 20**



Pro-Dim 20 Master with DMX inputs.

- Suitable for dimming control of incandescent, resistive, inductive/wound transformer loads, and most dimmable electronic transformers for low voltage or cold cathode lighting
- C20 circuit breaker overcurrent protection
- 60 mm slider level control (except on Slave version)
- Selectable dimming or zero voltage switching operation
- +10 V reference voltage output for remote potentiometer connection
- Dual 0-10 V analogue inputs (highest takes precedence)
- Internal 0-25% preheat control
- Thermostatically controlled forced cooling
- Setting for use with electronic ballasts
- Recommended minimum load 100 W
- Selectable 1 second fade rate for soft start operation with large incandescents
- Suitable for wall mounting, pole mounting or free standing use
- Push button outstations available
- Optional DMX input on XLR and RJ45 with thumbwheel bcd address setting and selectable termination resistor
- Output connection options :-
 - Hardwired on internal screw terminals
 - CEE 17 32 A input and output sockets

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The Pro-Dim 20 is a versatile single channel dimmer which can also be used for zero voltage switching of suitable loads. It features a slider level control (except on Slave versions), two analogue inputs and optional DMX inputs. The unit can be used wall mounted, pole mounted or free standing.

Supply connection

The Pro-Dim 20 requires earth, neutral and live connections for safe operation. Remove the knob from the slider control (on master versions), unscrew the four screws holding the lid in place and remove the lid to access input and output connections. The earth and neutral connections should be made to the earth and neutral common connection blocks at the front left side of the PCB. The live feed should be connected to the Live terminal marked IN >

Output neutral and earth connections should also be made to the common neutral and earth terminals. The output dimmed live connection to the load should be connected to the live terminal marked < CH1

Analogue input connections

There are two 0-10 V analogue input connections (input impedance > 40 Kohm) on the screw terminal block to the right of the circuit breaker marked < 1 and < 2 respectively. The two analogue inputs are combined with the level of the slider control (and DMX input if present) so that the highest input level sets the output dimming level.

A reference 0 V and a +10 V 50 mA supply are also made available for connecting to external potentiometer controls or other control equipment such as Anytronics Pro-Dim outstations. A +22 V 100 mA supply is also available for powering lighting desks or similar external equipment. The 0 V and input connections of different packs can be connected together to provide control of multiple loads.

DMX512 option

If fitted, this option will allow connection of DMX inputs via 3 or 5 pin XLRs or via a convenient RJ45 connector. The RJ45 connection also provides a +5 V supply to external equipment such as the Anyscene or AMD range of Anytronics DMX controls. The DMX address is set on the three bcd switches. An address of zero will disable the DMX input. Addresses between 512 and 799 are interpreted as address 512. Addresses above 799 will be ignored.

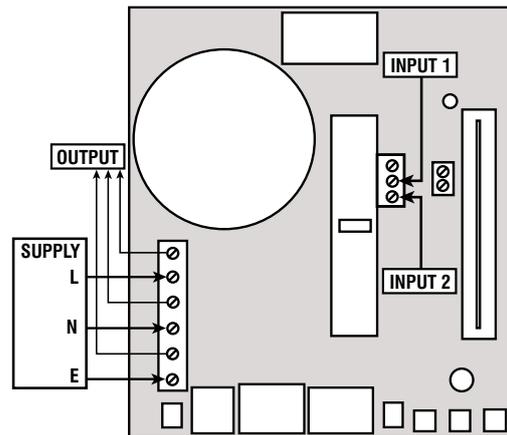
DIL switch options

With DIL switch 1 OFF dimming operation is selected. With it ON the output will be zero voltage switched on and off as the inputs pass through the switching thresholds.

If problems are encountered when dimming loads connected via electronic transformers, switch DIL switch 2 to ON for better compatibility with this type of load.

For a smooth output response, the normal dimming response time with DIL switch 3 OFF is approximately 100 mS. By switching DIL switch 3 ON this response time can be extended to one second in order to diminish the thermal shock applied to large incandescent loads. Such loads should ideally have a measure of preheat set as well so that lamp filaments remain warm and in a high impedance state.

A DMX termination resistor can be switched in by setting DIL switch 4 to ON.



Technical Specification

SUPPLY

Nominal 200-240 Vac, 50/60 Hz

FUSE PROTECTION

Electronics fuse (internal) 5 x 20 mm glass 100 mA Time Lag.

OUTPUT CURRENT

Maximum current 20 A limited by C type circuit breaker

Minimum recommended load 100 W

Full load 10%-90% current risetime > 180 μs

CONTROLS/INPUTS

60 mm metal shaft slider level control (except on Slave version)

Dual analogue 0-10 V dc control inputs, impedance > 40 kΩ

Optional DMX input on XLR / RJ45

OPERATIONAL OPTIONS

1. Dimming or zero voltage switching
2. Electronic ballast dimming
3. Rate limiting for soft start operation

DIMENSIONS

240 mm x 190 mm x 90 mm

WEIGHT

2.3 kg net 2.6 kg gross

COMPLIANCE

Complies with relevant parts of current CE regulations for EMC: EN50081-1 emissions, EN50082-1 immunity

LVD: EN60439 / EN60950

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