

Installation and User Guide

PAD2 1135/1 – Continuous mode LED Control Unit, single channel, 15W

Specifications

Power supply	24V DC ($\pm 10\%$), 0.8A max
Light output	15W (1A max)*
Protection class	IP30
Operation temperature	0°C ... +55°C
Storage temperature	-40°C ... +80°C
Storage humidity	Max. 80%

*) Constant current drive.

Power/trig connections DB9 Con.

24V DC	Pin1, 2	(Yellow)*
0V	Pin3, 4	(Brown)*
Trigger+ **	Pin8	(Green)*
Trigger- **	Pin9	(White)*
Shield – do NOT connect!	Tied to 0V	

*) Optional pwr/trig cable, part no: LKA1 1081

**) Trigger inputs for gated continuous mode.

Power/light int. ctrl/trig connections DB9 Con.

24V DC	Pin1, 2	(Red)*
0V	Pin2, 3	(Black)*
Trigger + *	Pin8	(White)*
Trigger - *	Pin9	(Brown)*
0-10V Light Int. ctrl *	Pin7	(White)*
0V *	Pin6	(Brown)*

*) Optional pwr/trig/ctrl cable, part no: LKA2 5135

*) Two separate 2-wire cables for trigger and 0-10V light intensity control.

Trigger input: optically isolated - see fig 3.

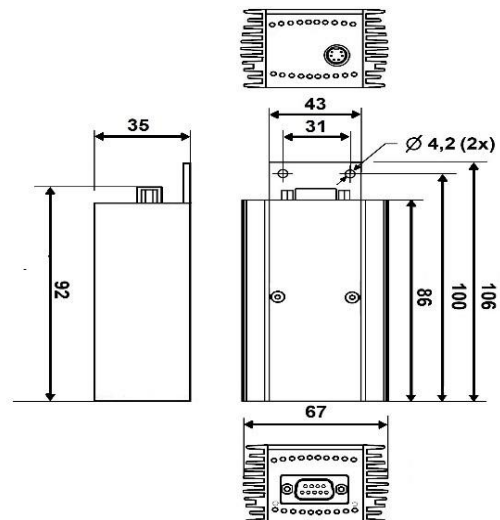
Range: 5-24V DC, max 20mA

Light connector:

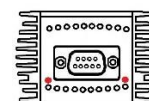
Pull back the spring-loaded housing before connecting and disconnecting.



Mechanical dimensions



LED indication, Fig 1.



Power Led Trigger LED

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Adjustable settings and modes – remove the units top cover (two Torx T10 screws) for access.

Feature	Description	Factory setting
Light intensity (LI)	P1: 0-100%	100%
Gated Continuous mode	Light On/Off control	GC mode: OFF
Double Intensity mode (DI)*	2 x P1 setting	DI mode: OFF
Voltage Control mode (VC)**	0-10V -> 0-100%	VC mode: OFF J4=SA; Stand Alone mode

*) Valid for light heads with max specified drive current up to 0.5 A as the max output current is 1 A.

**) Requires added wire(s) to the standard LKA1 1081 cable or the optional LKA2 5135 cable.

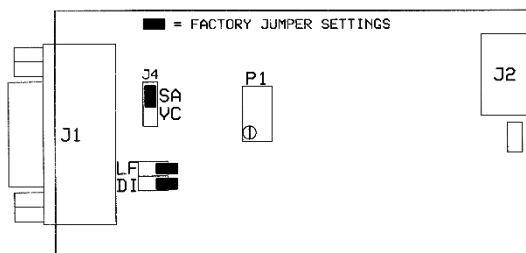


Fig 2.

Light Intensity – see Fig 2:

Lower the light intensity by turning P1 anti-clockwise and vice versa. Range 0-100%.

Gated Continuous mode – see Fig 2 & 3:

Install the LF-jumper for remote on/off control of the light head output using e.g. a digital output of a PLC. The light output state follows the trigger input state.

Double Intensity mode – see Fig 2 & 3:

When in gated continuous mode, it is possible to double the light intensity setting of P1 by installing the DI-jumper. However, the maximum ON-time in this mode is five seconds after which the controller automatically turns OFF the light output for five seconds in order to prevent LED overheating.

This cooling state is indicated by flashing of the controller's power indicator LED - see Fig 1.

Voltage Control mode – see Fig 2:

Moving the jumper J4 from the default Stand Alone (SA) mode position to VC enables remote control of the light intensity by applying a 0-10V DC signal to the dedicated wire (see Table 1) forcing LI = 0-100%. This mode does **not override** the P1 setting, therefore turn P1 to max prior to operation to ensure full control range. Requires the optional LKA2 5135 cable or adding wires to the optional LKA1 1081 cable - see page 1.

Fig 3.

