LTDV6CH

Strobe-Controller 6 Kanäle

Synchronization inputs

There are four galvanically isolated synchronization inputs. These inputs can be connected directly to the system for voltages up to 24V DC. An external resistor is not necessary.

Synchronization outputs

There are two galvanically isolated synchronization outputs. These outputs can be used, for example, to trigger a camera or a slave lighting controller.

Internal pulse shaping logic

Each of the six channels can be individually configured to output pulses based either on a discrete external trigger signal or an internally-generated trigger. A wide variety of internal triggers can be produced by configuring the internal pulse shaping logic.

This logic includes eight pulse generators and several multiplexers. The pulse generators allow pulse delay and width control down to 1μsec resolution. The multiplexers, organized as two routing matrices, allow for the flexible selection of the pulse generators inputs and outputs.

An output protection circuit, used to prevent the lighting from getting overheated and thus damaged, is also included in this logic.

Independent 24V DC supplies

The controller has two independent 24V DC supplies for the power and logic sections. This choice is aimed at increasing versatility. Supply to the logic section must always be present, while supply to the power section can be cut off at any time. Supply to the power section can be removed to protect the end user from photo-biological hazard and other hazardous situations that may happen during fault conditions.

These two supplies can be connected together if convenient.

Internal 24V to 48V DC step-up converter

The controller has an internal 24V to 48V DC step-up converter. This widens the range of lighting systems the controller can drive.

RS485 configuration port

The controller can be quickly configured using an easy-to-use configuration software (which can be downloaded from our web site). The controller implements a subset of the Modbus RTU slave protocol and, as such, can also be configured and managed by any programmable logic controller (PLC) with a proper interface.

All the settings are stored in non-volatile memory; the controller will retain these settings even when the supply is removed.

Easy installation

The controller is housed in a small, compact unit with DIN rail mounting.

For in-depth documentation please refer to the product manual.

KEY BENEFITS AND FEATURES

- → Configuration software LTSW included
- → 6 independent, programmable, current-controlled pulsed outputs (range 3.5A to 17.0A)
- → 4 galvanically isolated synchronization inputs
- → 2 galvanically isolated synchronization outputs
- → Internal logic with 8 configurable pulse generators for flexible and accurate pulse shaping
- → Two independent 24V DC supplies for the logic and power sections
- → Internal 24V to 48V DC step-up converter to drive a broad range of lighting systems
- → RS485 configuration port with Modbus RTU slave protocol
- → Easy installation
- → Small, compact unit with DIN rail mounting

ZUSATZANGABEN

Elektrische Angaben

User interface		RS485 1
Configuration software		included
Output channels		6 independent constant current outputs
Output current range 2	(A)	3.5A - 17.0
Max dissipable thermal power per channel	(W)	5
Synchronization inputs n°		4 opto-isolated digital inputs 3
Synchronization outputs n°		2 opto-isolated digital outputs
Pulse delay	(μs)	0 - 65535 4
Pulse width	(μs)	10 - 65535 4
Timing repeatability for pulse delay	(μs)	0.1
Timing repeatability for pulse width	(μs)	0.5
Supply voltage	(V, DC)	24 5

Output voltage	(V)	0 - 36
Max startup/inrush current	(A)	2.5

Mechanische Angaben 6

Länge	(mm)	205
Breite	(mm)	123
Höhe	(mm)	84
Mounting		DIN rail

Kompatibilität

Accessories	ADPT001 7
Compatible products	LTDM series, LTLA series, LTDMLA series, View-through system

Umgebung

Betriebstemperatur	(deg)	0°C to 40°C
Lagerungstemperatur	(deg)	0°C to 50°C
Feuchtigkeit		20% to 85% relative humidity, non condensing
IP-Schutz		20
Installation		Indoor use only

HINWEISE

1. Mit Modbus RTU Slave-Protokoll.

2. In Schritten von 98 mA.

3. Opto-isoliert. Betrieb von 3V bis 24V.

4. In Schritten von 1 µs.

5. Reguliert ± 10%.

6. Einschließlich DIN-Halterung.

7. Muss separat bestellt werden. ADPT001 besteht aus - einem RS485-USB-Adapter und - einem Kabel mit 3 Verbindungselementen für LTDV6CH. Um LTDV6CH via Software zu konfigurieren, muss ADPT001 verwendet werden.

8. LTDMLA-Serie benötigt zwei LTDV1CH-Strobe-Controllers, um beide enthaltenen Beleuchtungen zu betreiben und zu steuern (Dom- und Ringleuchte).

9. Im Niederstrombereich ist auch die Option Dauerschaltung möglich.

KOMPATIBLE PRODUKTE

LTDM series
High-power strobed LED domes

LTDMA1-R	Diffusive strobed dome illuminator - small size medium power red
LTDMA1-G	Diffusive strobed dome illuminator - small size medium power green
LTDMA1-W	Diffusive strobed dome illuminator - small size medium power white
LTDMB2-R	Diffusive strobed dome illuminator - medium size high power red
LTDMB2-G	Diffusive strobed dome illuminator - medium size high power green
LTDMB2-W	Diffusive strobed dome illuminator - medium size high power white
LTDMC1-W	Diffusive strobed dome illuminator - large size medium power white
LTDMC2-R	Diffusive strobed dome illuminator - large size high power red
LTDMC2-G	Diffusive strobed dome illuminator - large size high power green
LTDMC2-W	Diffusive strobed dome illuminator - large size high power white

LTLA series
High-power strobed LED low angle diffused ringlights

LTLAB2-R	Diffusive strobed low angle ring light illuminator - medium size high power red
LTLAB2-G	Diffusive strobed low angle ring light illuminator - medium size high power green
LTLAB2-W	Diffusive strobed low angle ring light illuminator - medium size high power white
LTLAC1-W	Diffusive strobed low angle ring light illuminator - large size medium power white
LTLAC2-R	Diffusive strobed low angle ring light illuminator - large size high power red
LTLAC2-G	Diffusive strobed low angle ring light illuminator - large size high power green
LTLAC2-W	Diffusive strobed low angle ring light illuminator - large size high power white

LTDMLA series
High-power strobed LED dome + low angle lights

LTDMLAB2-WW	Diffusive strobed dome + low angle illumination system - medium size high power white
LTDMLAC1-WW	Diffusive strobed dome + low angle illumination system - large size medium power white
LTDMLAC2-WW	Diffusive strobed dome + low angle illumination system - large size high power white

View-through system
Space-saving illumination system for double side object inspection

LTVTBENCH	View-through system bench - small size medium power white
LTVTA1-W	Complete View-through illuminators system - small size medium power white

Accessories
Accessories and add-ons to make the most of Opto Engineering lenses.

ADPT001	Adapter RS485-USB + cable with 3 elements for LTDV6CH connection

LED Pattern projectors
High performance LED Pattern projectors

LTPRUP series	90W strobed LED pattern projectors