

Third generation four channel standard digital controller (DCS3)

LS-DCS3 series · Light controllers · 2 models

Third generation 4-channel standard digital constant-current controller: multiple trigger modes, abnormal light source protection, automatic adaptation of light source power, per-channel power setting and strobe time 1-999.



Features

- Small volume
- Exquisite appearance
- Multiple trigger modes (high level, low level, rising edge, falling edge)
- Abnormal light source protection
- Automatic adaptation of light source power
- The channel power can be set
- Strobe time 1-999 can be set

Applications

- Powering machine vision LED light sources, brightness control and strobe (trigger) control

Common specifications

Control mode	Constant current driven type
Input voltage	AC100-240V

Channel	4 Channel
Manual adjustment	yes (adjust by key)
Remote adjustment	yes (communication through RS232 serial port)
Luminance level memory	yes (automatic memory in 3 seconds after adjustment)
RS232 communication baud rate	9600
Adjustable brightness level	0-255 level (adjust manually by encoder or by PC software)
Max. power output/channel	2.5A
External trigger mode	Passive triggering (effective trigger voltage range 5-24V DC)
Four trigger modes	High level trigger, low level trigger, upper open (rising) edge trigger, falling edge trigger; on edge triggering the luminescence duration can be set in the upper computer software from 1-999ms
External trigger delay time	H, ON→OFF <80us
External trigger frequency	<1/T (e.g. T=1ms gives at most 1KHz)
Short-circuit protection	yes: the corresponding channel output is automatically closed
Overcurrent protection	yes: beyond 2.8A all channels are automatically closed and X.Err1 (X = channel) is displayed; restart and restore after the exception condition is removed
Automatic detection of light source power	yes (select manually or by command)
Output power of each channel can be adjusted	yes (by power level, ranging from 1 to 25)
Work environment	Temperature: -10~50 °C, Humidity: 20~80%
Storage environment	Temperature: -20~70 °C, Humidity: 10~90%
Stand-by power consumption	<5W
Boundary dimension (mm)	115.8*100*163mm (LxWxH)

Ordering code: LS-<A analog / D digital><P PWM / C current / V voltage driven><M mini / S standard><2.0 = 2nd generation>-<channels>C<max W per channel>W-<output V><PS passive / AS active / S switch-level trigger>

Models

Model	Power/CH	Total power	Total output power of the controller
LS-DCS3-4C060W60W-24PS	60W	60W	60W
LS-DCS3-4C080W120W-24PS	80W	120W	120W (from the model code)

More values per model (Output voltage, External trigger, Channels) are on each product page.

Dimensions

