



Steinbeis
Qualitätssicherung und
Bildverarbeitung GmbH

FlashControl High-Speed Flash Controller

Image acquisition of highly dynamic processes places high demands on the corresponding hardware for illuminating the objects to be measured.

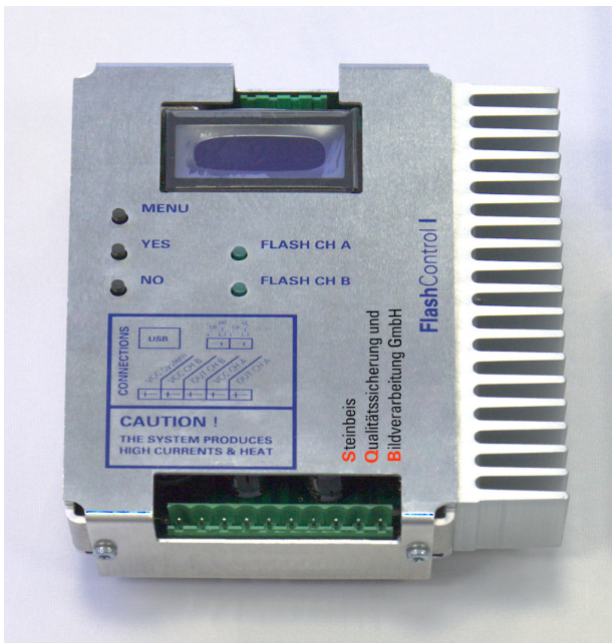
To reduce image blur during the recording of fast-moving objects, the use of flash lighting synchronised to the camera system is almost indispensable.

The flash controller High-Speed Flash Control in combination with the light tables of the Backlight series provides optimal lighting results when recording fast-moving processes and thus prevents blurred images of the measuring objects.

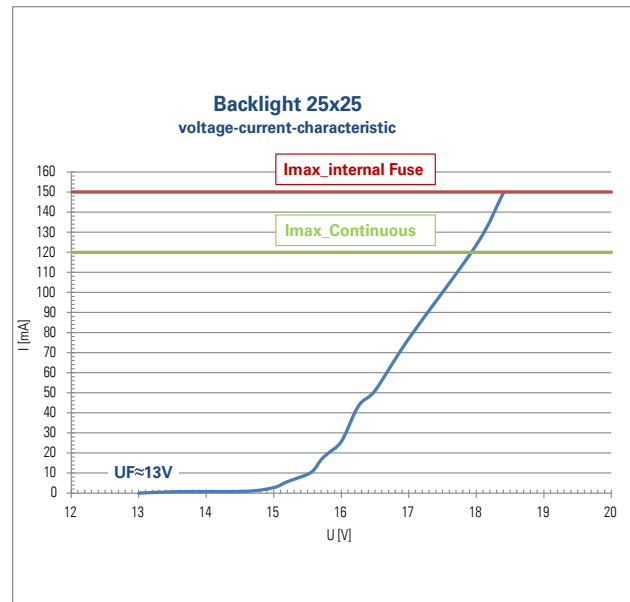
Only in sharp images can you measure with low measurement uncertainty.

Features

- Compact and system-flexible design
- Operation in flash and continuous mode possible
- Flexible solution for your lighting application:
 - 1-, 2- and 4-channels controllable with serial interface
 - Quick adaptation to your lighting problem by setting delay, lighting duration and current intensity via USB or input button
- Opto-galvanically decoupled trigger inputs for synchronisation with the camera
- Heat sink for heavy-duty use (optional)
- Self-trigger function



High-speed flash controller



Voltage-current characteristic
 High-speed flash controller



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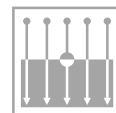
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Technical data

- Pulse frequency up to 10 kHz
- Pulse duration 10 µs - 1 s
- Pulse delay 0 µs - 1 s (10 µs steps)
- Trigger input opto-isolated 5 - 24 V
- Trigger level TTL or PLC (otherwise on request)
- Pulse current up to 10 A per channel (10 mA steps)
- Continuous current up to 2 A per channel (10 mA steps)
- Operating voltage 15 - 30 V
- Pulse voltage (operating voltage - 1 V)
- Configuration USB, manual
- Software programming integrated
- Manual parameterisation via input button
- Continuous operation with
 - Current up to 0.75 A without heat sink
 - Current up to 1 A with heat sink
- Operating mode display LC display
- Number of channels 1, 2 and 4 channels
- Channel processing for two inputs simultaneously asynchronous
- Mounting with top-hat rail mounting set
- Dimensions WxHxD with heat sink
109 mm x 50 mm x 143 mm
- Dimensions WxHxD without heat sink
88 mm x 50 mm x 143 mm
- Ambient temperature in operation 5 - 55°C
- Humidity max. 80% rel. humidity



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