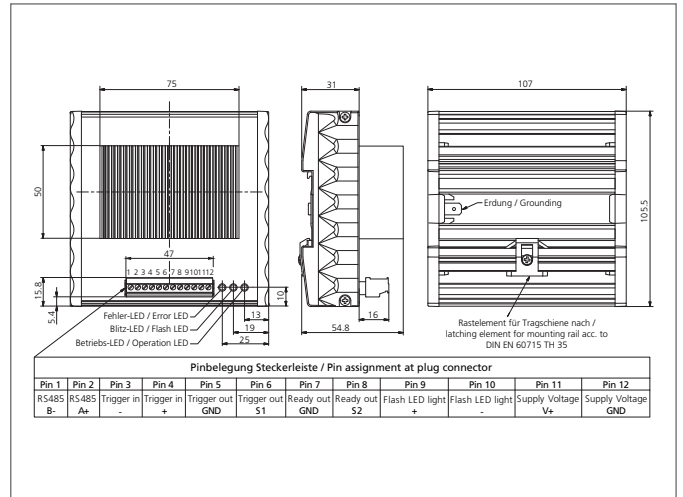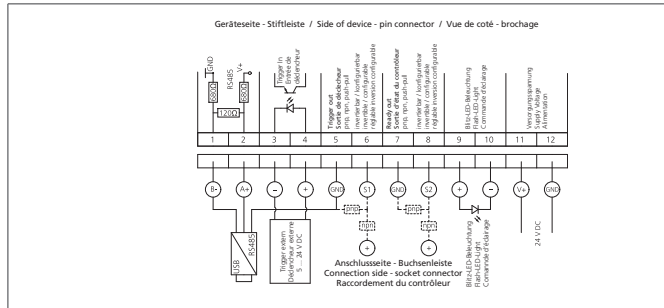# BC-100-20A
Flash controller for flashable lighting

- Controlled flash mode for LED-Lighting
- Simple and fast setup with RS485/USB/PC
- Trigger input for external control
- Adjustable delay
- Max. pulse current 20 A
- Pulse times can be adjusted between 10 µs ... 50 ms
- Strobe function up to 10 kHz
- Constant current of up to 1.8 A
- Stand by output
- Trigger output for camera systems and peripheral devices

Safety instructions

The Instruments are not to be used for safety applications, in particular applications in which safety of persons depends on proper operation of the instruments.
These instruments shall exclusively be used by qualified personnel.

Pinbelegung Steckerleiste / Pin assignment at plug connector

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12
RS485 B-	RS485 A+	Trigger in -	Trigger in +	Trigger out GND	Trigger out S1	Ready out GND	Ready out S2	Flash LED light +	Flash LED light -	Supply Voltage V+	Supply Voltage GND

TECHNICAL INFORMATION (typ.)	+20°C, 24V DC
Service voltage	24 V DC ± 1V
Trigger input	5 ... 24 V DC, potential-free, optocouplers
Interface	RS 485
Shock-/vibration load	10 ... 55 Hz / 1,0 mm / 30 g
Inverse polarity protection	In pairs by terminal group
Display	LED: green - operation, yellow - flash, red - error
Short-circuit protection	In pairs by terminal group
Ambient temperature, operation	0 ... +40 °C
Protection class	IP 40
Protection degree	III, operation on protective low voltage
Casing material	Aluminium, PA 6.6 FR anodized
Connection	Terminal Blocks, 12-poled
Trigger output	push-pull, pnp (12 V DC), npn (30 V DC), configurable, < 150 mA
Ready output	push-pull, pnp (12 V DC), npn (30 V DC), configurable, < 150 mA
Average / Peak power consumption	< 2,5 A / 6,0 A
LED constant current (configurable)	0,1 ... 1,8 A
LED pulse current (configurable)	0,1 ... 20,0 A
Pulse duration (configurable)	0,01 ... 50 ms
Pulse cycle time (configurable)	100 µs ... 60 s
Pulse delay (configurable)	> 50 µs (0...2 A) / > 5 µs (2...20 A)
Input power	< 55 W (24 V DC)
Number of channels	1