

# Area Flash Light LG3020FL - Technical data



- LED Area Light for flash operation
- light field 300 mm x 200 mm
- light guide technology with 60 laterally coupled Power LED
- highly diffused backlight or directed homogeneous collimated light
- integrated illumination controller
- brightness can be regulated internally (potentiometer) or externally with a VC analogue input
- adjustable flash times up to 220 µs
- extremely fast trigger inputs for synchronous and precise flash for parallel image acquisition
- robust industrial model, Aluminium casing, IP50
- 150 mm cable with an M16 12-pin plug
- drag chain connection cable with an M16 12-pin socket in different lengths available as accessory [↪ please note page 211 of the main product catalogue](#)

**LIFETIME**  
**75.000h+**

x=0,31  
y=0,31

850nm

625nm

528nm\*

470nm\*

\*on request

**Strobe / Flash**

**CONTROLLER**  
INSIDE

With the following table you can assemble your desired type of lighting:\*  
 \* A detailed product key explanation can be found on [↪ Page 4](#) of the main product catalogue.

| Available illumination variants |                 |   |                       |            |            |
|---------------------------------|-----------------|---|-----------------------|------------|------------|
| Model                           | Diffusing panel | Illumination colour                                 | Brightness regulation | Trigger    | Flash time |
| LG3020FL                        | DL,<br>KOL      | R<br>IR850<br>W<br>B (on request)<br>G (on request) | Potentiometer,<br>VC  | SPS<br>TTL | 100<br>220 |

|                              |                           |  |
|------------------------------|---------------------------|--|
| <b>Operation mode</b>        | Flash                     |  |
| <b>Operation voltage</b>     | 19...30 V DC              | wide range voltage input   |
| <b>Max. current</b>          | 1,0 A                     | at 24 V  |
| <b>Trigger modes</b>         | TTL / SPS                 | TTL: rising slope at trigger input, min. 3 V DC, max. 30 V DC<br>SPS: rising slope at trigger input, min. 15 V DC, max. 30 V DC  |
| <b>Flash times</b>           | 10 - 100 µs / 20 - 220 µs | adjustable with potentiometer, max. flash frequency 100 Hz or 35 Hz  |
| <b>Brightness regulation</b> | Potentiometer / VC        | Potentiometer: 0...100 % (deactivated with VC - models) or<br>VC: 0 - 100 % with VC-analogue input 2...10 V DC<br>VC-voltage > 1 VDC -> potentiometer deactivated automatically,<br>recommendation: turn the potentiometer fully anti-clockwise (left) |
| <b>Ambient temperature</b>   | 5 - 45 °C / 37 - 113 °F   | non-condensing   |
| <b>Weight</b>                | 2,8 kg                    |  |
| <b>Protection class</b>      | IP 50                     |  |
| <b>Connection</b>            | M16 12-pin plug           | 150 mm drag chain cable with an M16 12-pin plug, IP67  |

| Pin arrangement M16 plug |        |                |   |
|--------------------------|--------|----------------|---|
| A+K                      | white  | GND            | GND Operation voltage                   |
| B+L                      | brown  | U <sub>B</sub> | Operation voltage                       |
| C                        | green  | NC             | NC                                      |
| D                        | yellow | VC             | Brightness regulation 2...10 V DC       |
| E                        | grey   | +Trigger TTL   | Flash input TTL > 3 V DC, rising slope  |
| F                        | pink   | +Trigger SPS   | Flash input SPS > 15 V DC, rising slope |
| G                        | blue   | GND Trigger    | GND trigger circuit                     |
| H                        | Shield | Shield         | Shield connection                       |
| J                        | nc     | NC             | NC                                      |
| M                        | nc     | NC             | NC                                      |

Price list: [page 250 of the main product catalogue](#)

# Area Flash Light LG3020FL - Technical drawing

