

# Dark Field Ring Flash Light DFL150FL - Technical data



- LED Dark Field Ring Light for flash operation
- light field diameter 150 mm
- 240 high performance SMD LEDs
- integrated diffusor
- integrated illumination controller
- brightness can be regulated internally (potentiometer) or externally with a VC analogue input
- adjustable flash times up to 220 µs
- different trigger modes
- robust industrial, Aluminium casing, IP40
- 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

470nm

525nm

625nm



**CONTROLLER**  
**INSIDE**



*Price list: page 339 of the main product catalogue*



*T1-Adapter cable: starting on page 212 of the main product catalogue*

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.

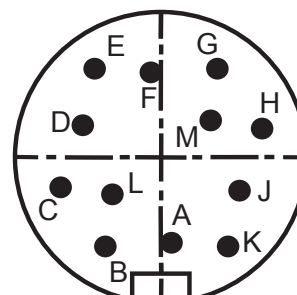
**Available illumination variants**

| Model    | Illumination colour | Brightness regulation      | Trigger    | Flash time |
|----------|---------------------|----------------------------|------------|------------|
| DFL150FL | R<br>W<br>B<br>G    | Potentiometer, optional 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>          | 1,1 A                     | at 24 V   |
| <b>Trigger modes</b>         | TTL / SPS                 | TTL: rising slope at trigger input, min. 2,8 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 % when connected to a voltage of 2...10 V DC on the VC analogue input (potentiometer deactivated) |
| <b>Ambient temperature</b>   | 5 - 45 °C / 37 - 113 °F   | non-condensing  |
| <b>Weight</b>                | 1,0 kg                    |   |
| <b>Protection class</b>      | IP 40                     |   |
| <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   | NC                 | NC                                 |
| F   | pink   | +Trigger SPS / TTL | SPS >15 V / TTL >3 V, rising slope |
| G   | blue   | GND Trigger        | GND trigger circuit                |
| H   | Shield | Shield             | Shield connection                  |
| J   | nc     | NC                 | NC                                 |
| M   | nc     | NC                 | NC                                 |



# Dark Field Ring Flash Light DFL150FL - Technical drawing

