

Area Flash Light SQ80FL - Technical data



- LED Area Light for flash operation
- active light field 80 mm x 80 mm
- 144 high performance 5 mm LEDs
- applicable as a clear, diffused, polarised, focusing incident illumination or as a transmitted illumination
- 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 model, 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](#)

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.

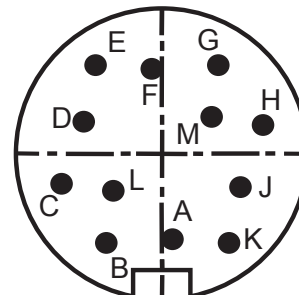
Available illumination variants

| Model | Diffusing panel | Illumination colour | Brightness regulation | Trigger | Flash time |
|--------|----------------------------|---------------------------|-------------------------------|------------|------------|
| SQ80FL | ALK ALD ALF100 DL | R IR870 W B G | Potentiometer, optional VC | SPS TTL | 100 220 |

| | | |
|------------------------------|---------------------------|---|
| Operation mode | Flash | |
| Operation voltage | 10...30 V DC | wide range voltage input |
| Max. current | 1,0 A | at 24 V |
| Trigger modes | TTL / SPS | TTL: rising slope at trigger input, min. 2,8 V DC, max. 30 V DC SPS: rising slope at trigger input, min. 15 V DC, max. 30 V DC |
| Flash times | 10 - 100 µs / 20 - 220 µs | adjustable with the potentiometer, max. flash frequency 100 Hz or 35 Hz |
| Brightness regulation | Potentiometer / VC | Potentiometer: 0...100 % (deactivated on VC - models) or VC: 0...100 % when connected to a voltage of 2...10 V DC on the VC analogue input (potentiometer deactivated) |
| Ambient temperature | 5 - 45 °C / 37 - 113 °F | non-condensing |
| Weight | 0,45 kg | |
| Protection class | IP 40 | |
| Connection | 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 _B | 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 |



LIFETIME
75.000h+

x=0,31
y=0,31

470nm

525nm

625nm

870nm

Strobe / Flash

CONTROLLER
INSIDE



Price list: [page 271 of the main product catalogue](#)



T1-Adapter cable:
starting on [page 212 of the main product catalogue](#)



Mounting solution:
starting on [page 223 of the main product catalogue](#)

Area Flash Light SQ80FL - Technical drawing

