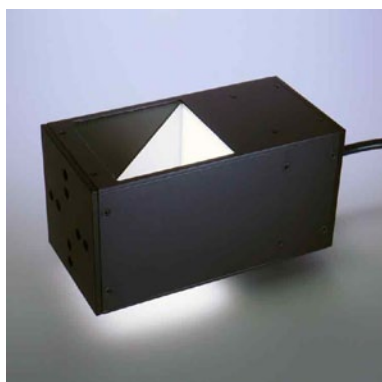


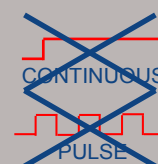
## Coaxial flash light ES100FL - Technical data



- LED Coaxial light for flash operation
- active light field 100 mm x 100 mm
- 196 high performance 5 mm LEDs
- applicable as a coaxial, homogeneous incident 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
- drag chain cable

| Model     | Colour / Wavelength (nm) | Operating voltage UB (V) | Operating current I (A) / 24 V |
|-----------|--------------------------|--------------------------|--------------------------------|
| ES100FL-R | red / 625                | 19 - 30                  | 0,9                            |
| ES100FL-W | white / x=0,31 y=0,31    | 19 - 30                  | 1,3                            |
| ES100FL-B | blue / 470               | 19 - 30                  | 1,3                            |
| ES100FL-G | green / 525              | 19 - 30                  | 1,3                            |

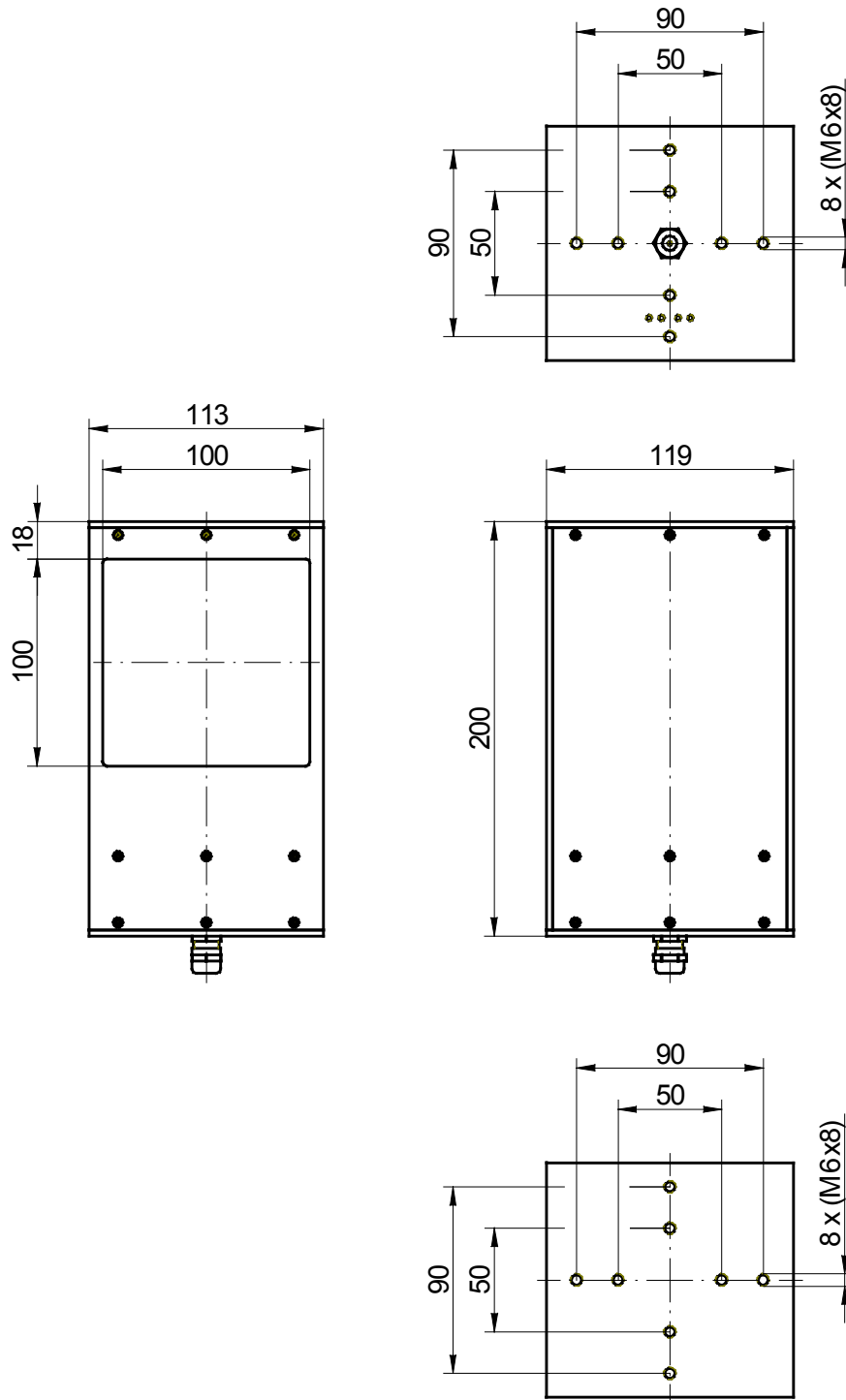
625  
 x=0,31  
 y=0,31  
 470  
 525



|                       |                           |                                                                                                                                                                                                                |
|-----------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation mode        | Flash                     |                                                                                                                                                                                                                |
| Trigger modes         | TTL / PLC                 | TTL: rising slope at trigger input, min. 2,8 V DC, max. 30 V DC<br>PLC: 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)<br>VC brightness regulation 0 - 10 % when connected to a voltage of 1 - 10 V DC on the VC analogue input (only the VC - model >>> observe the order data) |
| Operation temperature | 0 - 45 °C / 32 - 113 °F   |                                                                                                                                                                                                                |
| Weight                | 2,0 kg                    |                                                                                                                                                                                                                |
| Protection class      | IP 40                     |                                                                                                                                                                                                                |
| Connection cable      | 1,5 m                     | drag chain cable, bending radius at least 72 mm                                                                                                                                                                |

| Kabelbelegung        |               |                                         |
|----------------------|---------------|-----------------------------------------|
| braun                | +19...30 V DC | + Operating voltage (max. 30 V)         |
| white                | GND           | GND Operating voltage                   |
| yellow               | +1...10 V DC  | VC analogue input brightness regulation |
| green (green/yellow) | earth         | earth connection                        |
| pink                 | + Trigger     | TTL / PLC, rising slope                 |
| blue                 | - Trigger     | GND Trigger                             |

## Coaxial flash light ES100FL - Technical drawing



# Coaxial flash light ES100FL - Order data

## Composition of the product name

|              |                                                       |                     |                               |         |             |
|--------------|-------------------------------------------------------|---------------------|-------------------------------|---------|-------------|
| Model        | Diffusor                                              | Illumination colour | Brightness regulation         | Trigger | Flash time  |
| SQ / CRC/... | ALK - incident light, clear screen                    | R - red             | VC - VC analogue input active | PLC     | 10...100 µs |
|              | ALD - incident light, diffused, satin screen          | IR - infrared       | free - Potentiometer active   | TTL     | 20...220 µs |
|              | ALF - incident light fresnel lens (f=100 mm)          | W - white           |                               |         |             |
|              | DL - transmitted light, highly diffused, white screen | B - blue            |                               |         |             |
|              | POL - polarisation filter                             | G - green           |                               |         |             |
|              |                                                       | UV - ultraviolet    |                               |         |             |

| ES100FL        |                      |
|----------------|----------------------|
| Product number | Product name         |
| 11.87.001      | ES100FL-R/SPS-100    |
| 11.87.002      | ES100FL-R/TTL-100    |
| 11.87.003      | ES100FL-R/VC/SPS-100 |
| 11.87.004      | ES100FL-R/VC/TTL-100 |
| 11.87.005      | ES100FL-R/SPS-220    |
| 11.87.006      | ES100FL-R/TTL-220    |
| 11.87.007      | ES100FL-R/VC/SPS-220 |
| 11.87.008      | ES100FL-R/VC/TTL-220 |
| 11.87.009      | ES100FL-W/SPS-100    |
| 11.87.010      | ES100FL-W/TTL-100    |
| 11.87.011      | ES100FL-W/VC/SPS-100 |
| 11.87.012      | ES100FL-W/VC/TTL-100 |
| 11.87.013      | ES100FL-W/SPS-220    |
| 11.87.014      | ES100FL-W/TTL-220    |
| 11.87.015      | ES100FL-W/VC/SPS-220 |
| 11.87.016      | ES100FL-W/VC/TTL-220 |
| 11.87.017      | ES100FL-B/SPS-100    |
| 11.87.018      | ES100FL-B/TTL-100    |
| 11.87.019      | ES100FL-B/VC/SPS-100 |
| 11.87.020      | ES100FL-B/VC/TTL-100 |
| 11.87.021      | ES100FL-B/SPS-220    |
| 11.87.022      | ES100FL-B/TTL-220    |
| 11.87.023      | ES100FL-B/VC/SPS-220 |
| 11.87.024      | ES100FL-B/VC/TTL-220 |
| 11.87.025      | ES100FL-G/SPS-100    |
| 11.87.026      | ES100FL-G/TTL-100    |
| 11.87.027      | ES100FL-G/VC/SPS-100 |
| 11.87.028      | ES100FL-G/VC/TTL-100 |
| 11.87.029      | ES100FL-G/SPS-220    |
| 11.87.030      | ES100FL-G/TTL-220    |
| 11.87.031      | ES100FL-G/VC/SPS-220 |
| 11.87.032      | ES100FL-G/VC/TTL-220 |