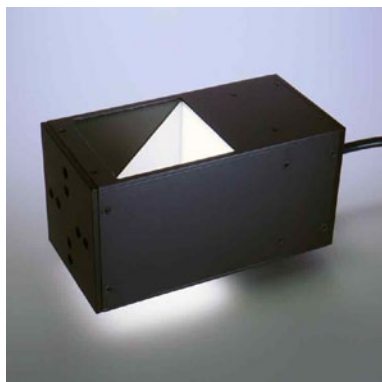


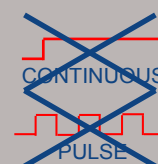
Coaxial flash light ES80FL - Technical data



- LED Coaxial light for flash operation
- active light field 80 mm x 80 mm
- 144 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
ES80FL-R	red / 625	19 - 30	0,7
ES80FL-W	white / x=0,31 y=0,31	19 - 30	1,0
ES80FL-B	blue / 470	19 - 30	1,0
ES80FL-G	green / 525	19 - 30	1,0

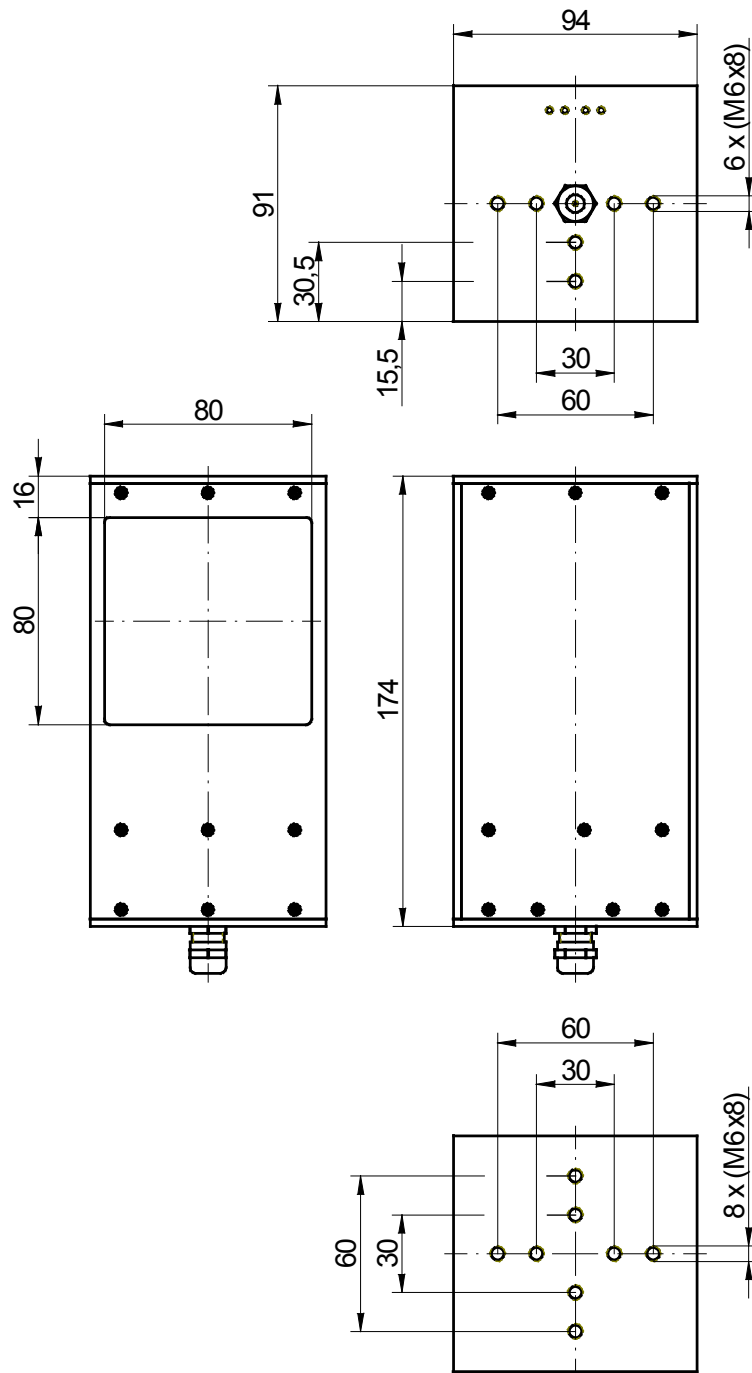
625
 x=0,31
 y=0,31
 470
 525



Operation mode	Flash	
Trigger modes	TTL / PLC	TTL: rising slope at trigger input , min. 2,8 V DC, max. 30 V DC 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) 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	1,35 kg	
Protection class	IP 40	
Connection cable	1,5 m	drag chain cable, bending radius at least 72 mm

Wiring		
brown	+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 ES80FL - Technical drawing



Coaxial flash light ES80FL - 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			

ES80FL	
Product number	Product name
11.85.001	ES80FL-R/SPS-100
11.85.002	ES80FL-R/TTL-100
11.85.003	ES80FL-R/VC/SPS-100
11.85.004	ES80FL-R/VC/TTL-100
11.85.005	ES80FL-R/SPS-220
11.85.006	ES80FL-R/TTL-220
11.85.007	ES80FL-R/VC/SPS-220
11.85.008	ES80FL-R/VC/TTL-220
11.85.009	ES80FL-W/SPS-100
11.85.010	ES80FL-W/TTL-100
11.85.011	ES80FL-W/VC/SPS-100
11.85.012	ES80FL-W/VC/TTL-100
11.85.013	ES80FL-W/SPS-220
11.85.014	ES80FL-W/TTL-220
11.85.015	ES80FL-W/VC/SPS-220
11.85.016	ES80FL-W/VC/TTL-220
11.85.017	ES80FL-B/SPS-100
11.85.018	ES80FL-B/TTL-100
11.85.019	ES80FL-B/VC/SPS-100
11.85.020	ES80FL-B/VC/TTL-100
11.85.021	ES80FL-B/SPS-220
11.85.022	ES80FL-B/TTL-220
11.85.023	ES80FL-B/VC/SPS-220
11.85.024	ES80FL-B/VC/TTL-220
11.85.025	ES80FL-G/SPS-100
11.85.026	ES80FL-G/TTL-100
11.85.027	ES80FL-G/VC/SPS-100
11.85.028	ES80FL-G/VC/TTL-100
11.85.029	ES80FL-G/SPS-220
11.85.030	ES80FL-G/TTL-220
11.85.031	ES80FL-G/VC/SPS-220
11.85.032	ES80FL-G/VC/TTL-220