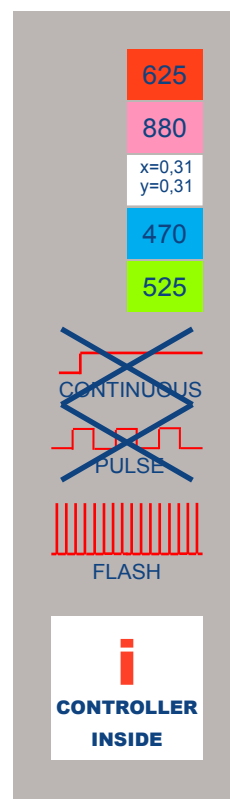


Square Flash light SQ160FL - Technical data



- LED Square light for flash operation
- active light field 160 mm x 160 mm
- 400 high performance 5 mm LEDs
- applicable as a clear, diffused or polarised 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
- drag chain cable

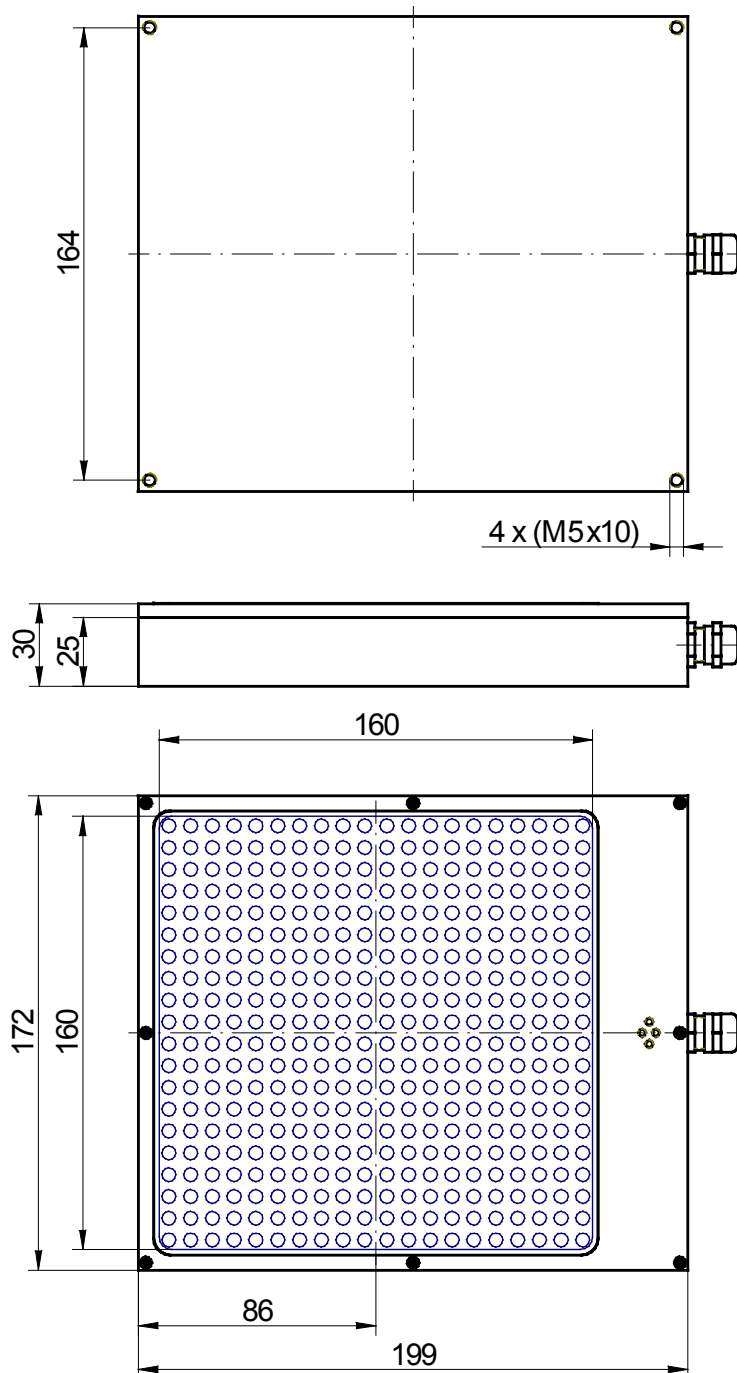
Model	Colour / Wavelength (nm)	Operating voltage UB (V)	Operating current I (A) / 24 V
SQ160FL-xxx-R	red / 625	19 - 30	1,6
SQ160FL-xxx-IR	infrared / 880	19 - 30	2,2
SQ160FL-xxx-W	white / x=0,31 y=0,31	19 - 30	2,0
SQ160FL-xxx-B	blue / 470	19 - 30	2,0
SQ160FL-xxx-G	green / 525	19 - 30	2,0



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	1,3 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 / Pulse
green (green/yellow)	earth	earth connection
pink	+ Trigger	TTL / PLC, rising slope
blue	- Trigger	GND Trigger

Square Flash light SQ160FL - Technical drawing



Square Flash light SQ160FL - Order data

Composition of the product name

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

SQ160FL-ALK clear incident screen	
Product number	Product name
11.12.001	SQ160FL-ALK-R/SPS-100
11.12.002	SQ160FL-ALK-R/TTL-100
11.12.003	SQ160FL-ALK-R/VC/SPS-100
11.12.004	SQ160FL-ALK-R/VC/TTL-100
11.12.005	SQ160FL-ALK-IR/SPS-100
11.12.006	SQ160FL-ALK-IR/TTL-100
11.12.007	SQ160FL-ALK-IR/VC/SPS-100
11.12.008	SQ160FL-ALK-IR/VC/TTL-100
11.12.009	SQ160FL-ALK-W/SPS-100
11.12.010	SQ160FL-ALK-W/TTL-100
11.12.011	SQ160FL-ALK-W/VC/SPS-100
11.12.012	SQ160FL-ALK-W/VC/TTL-100
11.12.013	SQ160FL-ALK-R/SPS-220
11.12.014	SQ160FL-ALK-R/TTL-220
11.12.015	SQ160FL-ALK-R/VC/SPS-220
11.12.016	SQ160FL-ALK-R/VC/TTL-220
11.12.017	SQ160FL-ALK-IR/SPS-220
11.12.018	SQ160FL-ALK-IR/TTL-220
11.12.019	SQ160FL-ALK-IR/VC/SPS-220
11.12.020	SQ160FL-ALK-IR/VC/TTL-220
11.12.021	SQ160FL-ALK-W/SPS-220
11.12.022	SQ160FL-ALK-W/TTL-220
11.12.023	SQ160FL-ALK-W/VC/SPS-220
11.12.024	SQ160FL-ALK-W/VC/TTL-220
11.12.025	SQ160FL-ALK-B/SPS-100
11.12.026	SQ160FL-ALK-B/TTL-100
11.12.027	SQ160FL-ALK-B/VC/SPS-100
11.12.028	SQ160FL-ALK-B/VC/TTL-100
11.12.029	SQ160FL-ALK-G/SPS-100
11.12.030	SQ160FL-ALK-G/TTL-100
11.12.031	SQ160FL-ALK-G/VC/SPS-100
11.12.032	SQ160FL-ALK-G/VC/TTL-100
11.12.033	SQ160FL-ALK-B/SPS-220
11.12.034	SQ160FL-ALK-B/TTL-220
11.12.035	SQ160FL-ALK-B/VC/SPS-220
11.12.036	SQ160FL-ALK-B/VC/TTL-220
11.12.037	SQ160FL-ALK-G/SPS-220
11.12.038	SQ160FL-ALK-G/TTL-220
11.12.039	SQ160FL-ALK-G/VC/SPS-220
11.12.040	SQ160FL-ALK-G/VC/TTL-220

SQ160FL-ALD diffused, satin incident screen	
Product number	Product name
11.12.101	SQ160FL-ALD-R/SPS-100
11.12.102	SQ160FL-ALD-R/TTL-100
11.12.103	SQ160FL-ALD-R/VC/SPS-100
11.12.104	SQ160FL-ALD-R/VC/TTL-100
11.12.105	SQ160FL-ALD-IR/SPS-100
11.12.106	SQ160FL-ALD-IR/TTL-100
11.12.107	SQ160FL-ALD-IR/VC/SPS-100
11.12.108	SQ160FL-ALD-IR/VC/TTL-100
11.12.109	SQ160FL-ALD-W/SPS-100
11.12.110	SQ160FL-ALD-W/TTL-100
11.12.111	SQ160FL-ALD-W/VC/SPS-100
11.12.112	SQ160FL-ALD-W/VC/TTL-100
11.12.113	SQ160FL-ALD-R/SPS-220
11.12.114	SQ160FL-ALD-R/TTL-220
11.12.115	SQ160FL-ALD-R/VC/SPS-220
11.12.116	SQ160FL-ALD-R/VC/TTL-220
11.12.117	SQ160FL-ALD-IR/SPS-220
11.12.118	SQ160FL-ALD-IR/TTL-220
11.12.119	SQ160FL-ALD-IR/VC/SPS-220
11.12.120	SQ160FL-ALD-IR/VC/TTL-220
11.12.121	SQ160FL-ALD-W/SPS-220
11.12.122	SQ160FL-ALD-W/TTL-220
11.12.123	SQ160FL-ALD-W/VC/SPS-220
11.12.124	SQ160FL-ALD-W/VC/TTL-220
11.12.125	SQ160FL-ALD-B/SPS-100
11.12.126	SQ160FL-ALD-B/TTL-100
11.12.127	SQ160FL-ALD-B/VC/SPS-100
11.12.128	SQ160FL-ALD-B/VC/TTL-100
11.12.129	SQ160FL-ALD-G/SPS-100
11.12.130	SQ160FL-ALD-G/TTL-100
11.12.131	SQ160FL-ALD-G/VC/SPS-100
11.12.132	SQ160FL-ALD-G/VC/TTL-100
11.12.133	SQ160FL-ALD-B/SPS-220
11.12.134	SQ160FL-ALD-B/TTL-220
11.12.135	SQ160FL-ALD-B/VC/SPS-220
11.12.136	SQ160FL-ALD-B/VC/TTL-220
11.12.137	SQ160FL-ALD-G/SPS-220
11.12.138	SQ160FL-ALD-G/TTL-220
11.12.139	SQ160FL-ALD-G/VC/SPS-220
11.12.140	SQ160FL-ALD-G/VC/TTL-220

Flächenblitzlicht SQ160FL - Bestelldaten

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			

SQ160FL-DL	
Product number	Product name
11.12.301	SQ160FL-DL-R/SPS-100
11.12.302	SQ160FL-DL-R/TTL-100
11.12.303	SQ160FL-DL-R/VC/SPS-100
11.12.304	SQ160FL-DL-R/VC/TTL-100
11.12.305	SQ160FL-DL-IR/SPS-100
11.12.306	SQ160FL-DL-IR/TTL-100
11.12.307	SQ160FL-DL-IR/VC/SPS-100
11.12.308	SQ160FL-DL-IR/VC/TTL-100
11.12.309	SQ160FL-DL-W/SPS-100
11.12.310	SQ160FL-DL-W/TTL-100
11.12.311	SQ160FL-DL-W/VC/SPS-100
11.12.312	SQ160FL-DL-W/VC/TTL-100
11.12.313	SQ160FL-DL-R/SPS-220
11.12.314	SQ160FL-DL-R/TTL-220
11.12.315	SQ160FL-DL-R/VC/SPS-220
11.12.316	SQ160FL-DL-R/VC/TTL-220
11.12.317	SQ160FL-DL-IR/SPS-220
11.12.318	SQ160FL-DL-IR/TTL-220
11.12.319	SQ160FL-DL-IR/VC/SPS-220
11.12.320	SQ160FL-DL-IR/VC/TTL-220
11.12.321	SQ160FL-DL-W/SPS-220
11.12.322	SQ160FL-DL-W/TTL-220
11.12.323	SQ160FL-DL-W/VC/SPS-220
11.12.324	SQ160FL-DL-W/VC/TTL-220
11.12.325	SQ160FL-DL-B/SPS-100
11.12.326	SQ160FL-DL-B/TTL-100
11.12.327	SQ160FL-DL-B/VC/SPS-100
11.12.328	SQ160FL-DL-B/VC/TTL-100
11.12.329	SQ160FL-DL-G/SPS-100
11.12.330	SQ160FL-DL-G/TTL-100
11.12.331	SQ160FL-DL-G/VC/SPS-100
11.12.332	SQ160FL-DL-G/VC/TTL-100
11.12.333	SQ160FL-DL-B/SPS-220
11.12.334	SQ160FL-DL-B/TTL-220
11.12.335	SQ160FL-DL-B/VC/SPS-220
11.12.336	SQ160FL-DL-B/VC/TTL-220
11.12.337	SQ160FL-DL-G/SPS-220
11.12.338	SQ160FL-DL-G/TTL-220
11.12.339	SQ160FL-DL-G/VC/SPS-220
11.12.340	SQ160FL-DL-G/VC/TTL-220

POL additional integrated polarising filter foil (not for IR)

Product number	Product name
11.12.501	integrated polarising filter foil for the SQ160FL