FLASHING LIGHTS 13 J
Quadro F12 | Quadro S



Quadro F12

- Industrial successor to the legendary Eiffel Tower light.
- Design adapted to suit industrial requirements; mounted via concealed interior holes or external lugs; fast, flexible and secure.
- Outstanding mechanical strength with IP 66, IP 67 and IK08.
- Whether in the open air, in a hailstorm or when high pressure cleaning systems are used, the Quadro stays sealed and signals reliably.

Quadro S

- Automatic synchronised flashing light.
- A maximum of 10 flashing lights can be operated parallel and synchronously an unlimited time period; i.e. the flashes of all lights are generated simultaneously.

IP 66 / IP 67 — protection systems

IK08 — impact-proof housing

+55 °C / –40 °C — operating temperature

Sync

I t lim t

10 Years — warranty

EAC

PRODUCT		Quadro F12			Quadro S
DATA					
Rated voltage		230 V	115 V	24 V	230 V
		AC 50 I 60 Hz	AC 50 I 60 Hz	DC	AC 50 I 60 Hz
Operating range		195–253 V	95–127 V	18–30 V	195–253 V
Nominal current consumption		250 mA	340 mA	700 mA	250 mA
Initial current limited to		< 7 A / 150 µs	< 7 A / 150 µs	< 5 A / 2 ms	< 1 A / 50 ms

PRODUCT		Quadro F12	Quadro S
Flash energy and flash rate		13 J @ 1 Hz = 60 flashes/min	
Light intensity (DIN 5037) [1]		260 cd	
Max. viewing distance		374 m	
Operating temperature		–40 °C ... +55 °C	
Storage temperature		–40 °C ... +70 °C	
Relative humidity		100 %	
Protection system (EN 60529)		IP 66, IP 67, mounting arbitrary	
Impact resistance (EN 50102)		IK08	
Protection class		II	
Service life of the light source		light emission still 70 % after 12,000,000 flashes	
Material	lens	⁄ ○ ● ● ● ● ● polycarbonate (PC)	
	housing	polycarbonate (PC), RAL 7035	
Cable entry		2x M20 bottom side / 2x M20/M32 sideways	2x M20 sideways
Connecting terminal		cage clamp 0.08 - 2.5 mm²	
Mounting	external lugs	113 x 153 mm – M5 or 127.1 x 127.1 mm – M5	
	internal holes	113 x 113 mm	
Weight		600 g	

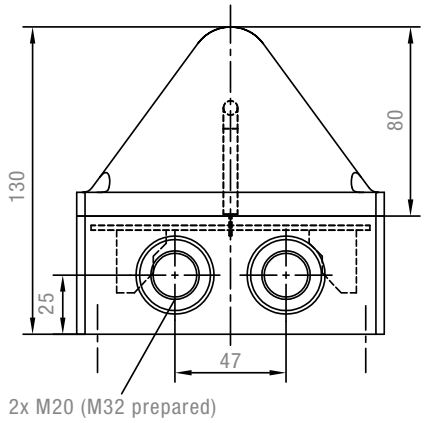
[1] with a clear lens

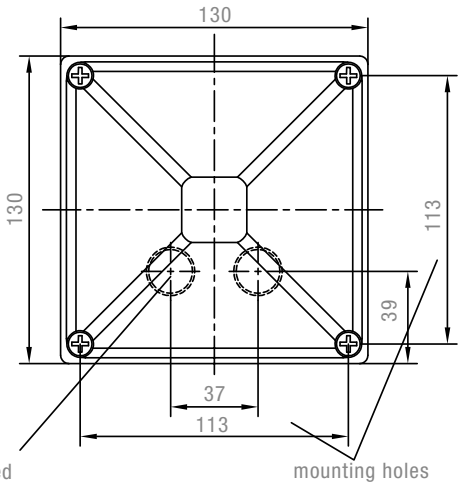
ARTICLE NO.	Quadro F12			Quadro S
LENS COLOUR	230 V AC	115 V AC	24 V DC	230 V AC
⁄ ○	21041101000	21041161000	21041801000	21042101000
●	21041103000	21041163000	21041803000	21042103000
●	21041104000	21041164000	21041804000	21042104000
●	21041105000	21041165000	21041805000	21042105000

Article numbers for other colours and voltages on request.

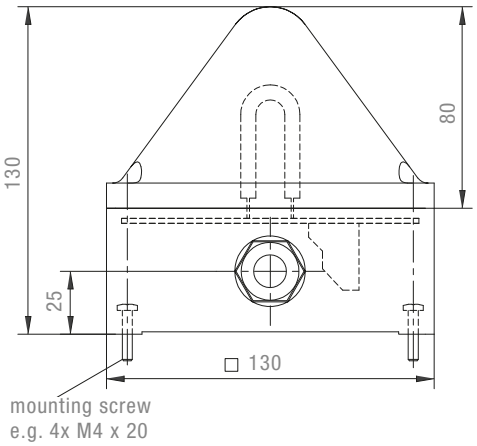
DIMENSIONS

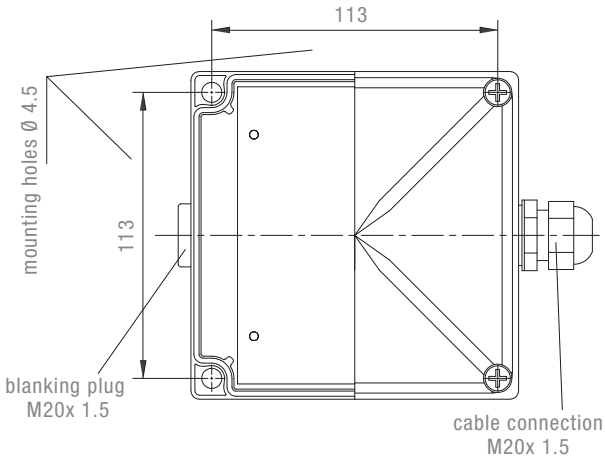
Quadro F12





Quadro S

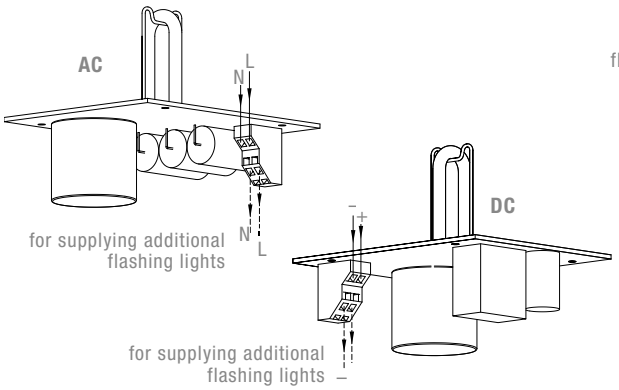




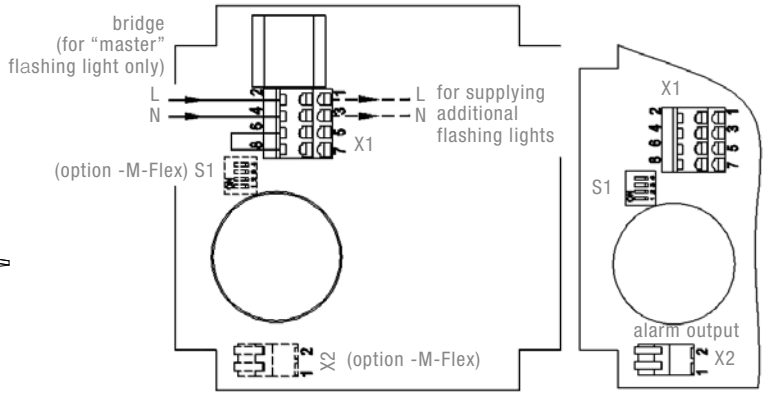
Additional mounting possible via external lugs (included).

CONNECTION DIAGRAMS

Quadro F12



Quadro S



CONFORMITY TO STANDARDS

The visual characteristics of flashing lights conform to the European standard DIN EN 842; **"Machine safety – visual alarm signals".**
Requirements contained in the DIN EN 981 standard; **"Machine safety – system of acoustic and visual alarm and information signals",** can be fulfilled.

The colours "red" for the emergency signal and "yellow" for the warning signal conform to the requirements of IEC 73 / DIN EN 60073 / VDE 0199; **"Coding of display devices and control elements using colours and supplementary means".**

References to visual alarm devices can be found in the following standards:

EN 60825-1	Radiation safety of laser devices, identical to IEC 825 and DIN-VDE 0837
DIN EN 54	Fire alarm systems
DIN 54113-2	Radiation protection regulations for the technical operation of X-ray equipment up to 500 kV