Flashing light 13 joules

New!

Quadro F12 / Quadro S-M-Flex / Quadro RX

Quadro F12

- industrial successor to the famous Eiffel Tower light
- design conforms to industrial needs, the mounting can be easially achieved using either the drilling on the inside or the fixing lugs of the housing
- mechanical rigidity is superb, with real IP66, IP67 and IK08 these lights remain a reliable alarm device even under harsh conditions
- the Quadro's resistance to outdoor use, during hailstorms or even with high pressure cleaning systems guarantees it's safe functioning
- service life is extremely high: even after 12 million flashes a 70% light emission is achieved, which is the operating requirement for a safe optical warning for even the most dangerous machines such as for punching, pressing, edging

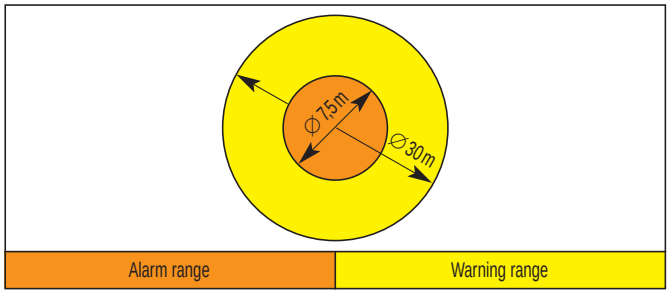
Quadro S-M-Flex

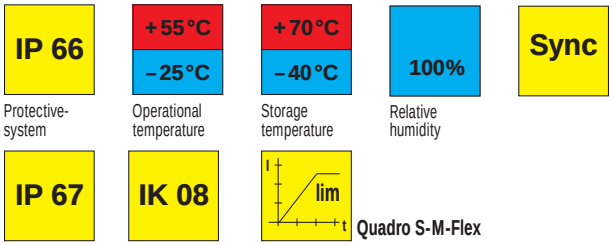
- matured tunnel security light
- synchronized flashing for up to 10 lights in series. No extra controller is needed. The initial current is kept below 1 Amp which makes it suitable for use in SPS-controlled and battery back-up systems
- variable brightness and adjustable flashing frequency
- integrated function monitor with fault message contact

Quadro R / Quadro RX

- for flash illumination for indoor and outdoor projects, even under extreme ambient conditions
- R = integrated unmediate sparkling effect
- X = black enclosure and reflection shield
- see also page 57

Optical data:





Light intensity (DIN 5037):	Quadro F12 / S-M-Flex
clear	160 candela
white	138 cd
yellow	133 cd
amber	95 cd
red	22 cd
green	48 cd
blue	20 cd

Quadro F12 / S-M-Flex

Flashing sequence:	1 Hz = 60 flashes/min / see table
Flashing power:	13 joules
Service life:	after 12.000.000 flashes still 70% light emission
Duty cycle:	100%

Quadro R / RX

Flashing sequence:	22-28 flashes/min
Flashing power:	10 joules
Service life:	after 10.000.000 flashes still 70% light emission
Duty cycle:	100%

Mechanical data:	Quadro F12 / Quadro S-M-Flex / Quadro R / Quadro RX
Cable gland	2 x M 20
Clamps	2 x 2 x 2,5 mm² (to connect through, not for R/RX)
Weight	600 g
Material globe	Polycarbonate PC
Material housing	Polycarbonate (PC), RAL 7035 (RAL 3000 optional)
Installation	mounting lugs: 113 x 153 mm – M5 or 127,1 x 127,1 mm – M5 inside holes: 113 x 113 mm
	PCB made of fibre-glass reinforced epoxy resin for thermic and mechanical protection. PCB dip-varnished to protect against moisture. Flash tube fastened with stainless steel clamp to prevent shock and vibration.
Standard:	
Operational temperature	–25 °C ... +55 °C
Storage temperature	–40 °C ... +70 °C
Relative humidity	100%
Protective system	IP 66 IP 67 (EN 60529), IK 08, all installations
Protective class	II

Electrical data: AC 50 Hz / 60 Hz

Nominal voltage	Electrical data	Quadro F12	Quadro S-M-Flex	Quadro R / RX
230 V	Voltage range: Rated current: Initial current restricted to:	195 V ... 253 V 160 mA < 7 A / 150 µs	195 V ... 253 V 160 mA <1 A / 10 ms	195 V ... 253 V 85 mA
115 V *	Voltage range: Rated current:	95 V ... 127 V 340 mA	95 V ... 127 V 350 mA (1 Hz / 13J)	

* available on request

DC

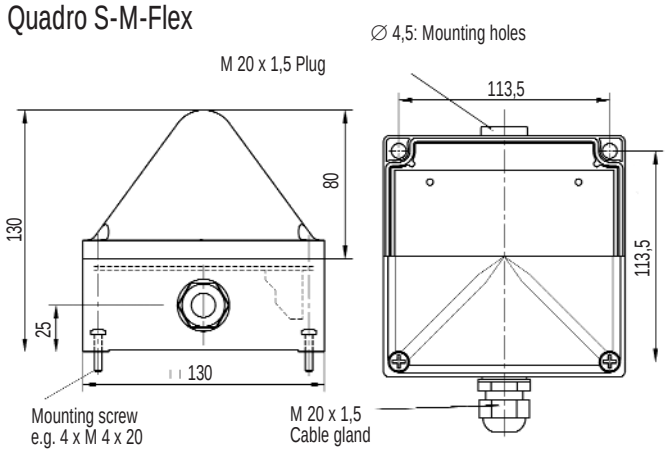
Nominal voltage	Electrical data	Quadro F12
24 V	Voltage range: Rated current: Initial current restricted to:	18 V ... 30 V 700 mA < 5 A / 2 ms

We reserve the right to technical alterations. Subject to correction. 075000044

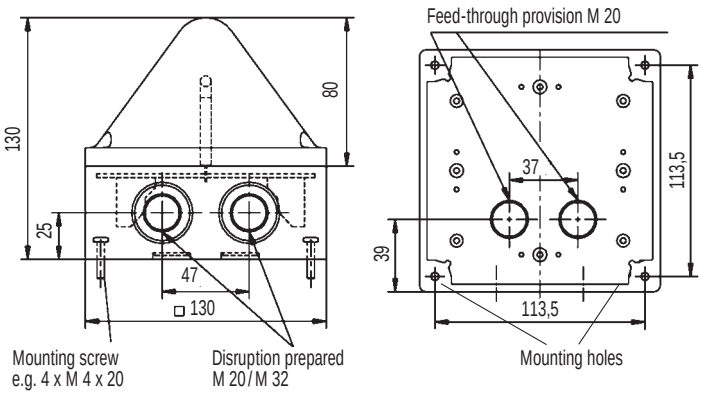
Pfannenberg
ELECTRO-TECHNOLOGY FOR INDUSTRY

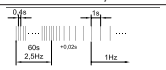
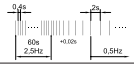
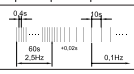
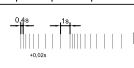
Mechanical data and dimensions:

Quadro S-M-Flex

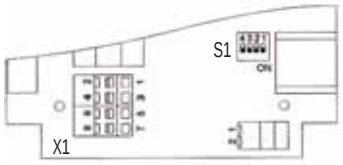


Quadro F 12



DIP-switch setting				Settings for Quadro S-M-Flex	
4	3	2	1	Frequency (Hz)	Flashing energy (J)
				1	13
			ON	2	13
		ON		0,5	13
		ON	ON	0,1	13
	ON			1	7,5
	ON		ON	2	7,5
	ON	ON		0,5	7,5
	ON	ON	ON	0,1	7,5
ON				1,5	13
ON			ON	1,75	13
ON		ON		2,5	13
ON		ON	ON		13
ON	ON				13
ON	ON		ON		13
ON	ON	ON		 recurring	7,5
ON	ON	ON	ON	only one flash	13

Quadro S-M-Flex
fault message contact



The Eiffeltower:
Illuminated with Pfannenberg's Quadro R

Special version:

Twinkle Effect | **Adjustable brightness** | **Adjustable frequency**

Approval on request:

GOST

Sample order:

Model:	Voltage:	Globe colour:	Approval:
Quadro F 12	230 V AC	RED	GOST

Conformity to standard:

The optical properties of flashing lights comply with the European standard DIN EN 842, which is published under the title:
„Machine safety – visual alarm signals".
Requirements of the standard DIN EN 981, published under the title:
„Machine safety – system of acoustic / visual alarm signals and information signals", can be met.
The colour „red" as emergency signal and „yellow" as a warning signal comply with the requirements of IEC 73 / DIN EN 60073 / VDE 0199, published under the title:
„Coding for display devices and control components 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 defined by IEC 825 and DIN-VDE 0837
DIN EN 54	Fire alarm systems
DIN 54113-2	Regulations for radiation protection applicable to technical operation of X-ray equipment up to 500 kV

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