FLASHING LIGHT 13 J
Quadro S-M-Flex



Proven tunnel safety light; conforms to the guideline of the Swiss Federal Highways Authority: 'Signaling systems of safety devices in tunnels'.

- Synchronised flashing of up to 10 beacons in series with no additional controller.
- Initial current limited to below 1 A.
- Integrated function monitoring with fault message contact.
- Variable brightness and flash frequency settings on-site on the device.
- Use of double-pole terminal for the simple connection of parallel operated lights.

IP 66 / IP 67 — protection systems

IK08 — impact-proof housing

+55 °C / –25 °C — operating temperature

Sync

I lim t

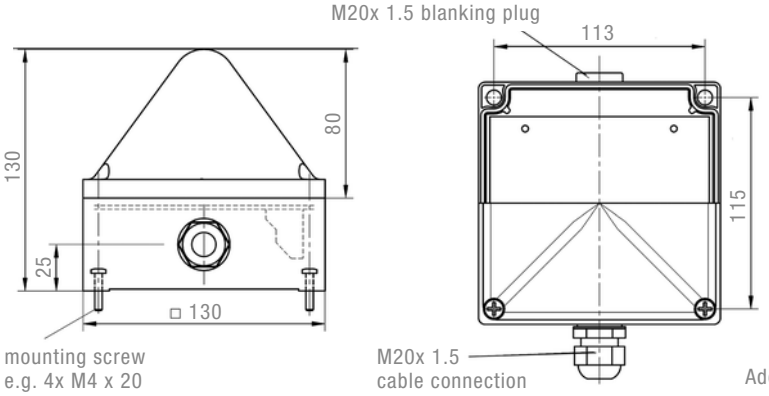
10 Years — warranty

EAC

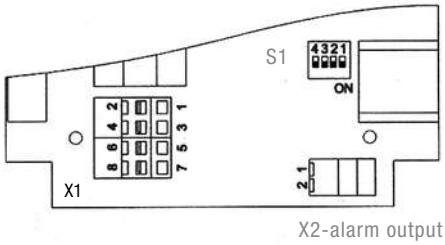
PRODUCT	Quadro S-M-Flex	
DATA		
Rated voltage	230 V	115 V
	AC 50 I 60 Hz	AC 50 I 60 Hz
Operating range	195–253 V	95–127 V
Nominal current consumption	250 mA (1 Hz / 13 J)	350 mA (1 Hz / 13 J)
Initial current limited to	<1 A /10 ms	
Alarm output	230 V / 80 mA	
Flash rate	adjustable (1 Hz = 60 flashes/min. factory setting)	
Flash energy	max. 13 J	
Light intensity (DIN 5037) [1]	260 cd	
Max. viewing distance	374 m	
Operating temperature	–25 °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	
Duty cycle	100 %	
Service life of the light source	light emission still 70 % after 12,000,000 flashes	
Material – lens	polycarbonate (PC)	
Material – housing	polycarbonate (PC), RAL 7035	
Connecting terminal	cage clamp 0.08–2.5 mm²	
Cable entry (prepared)	2x M20x 1.5 sideways	
Mounting – external lugs	113 x 153 mm – M5 or 127.1 x 127.1 mm – M5	
Mounting – internal holes	113 x 113 mm	
Weight	600 g	

[1] with a clear lens

DIMENSIONS

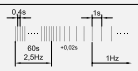
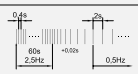
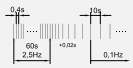


FAULT MESSAGE CONTACT

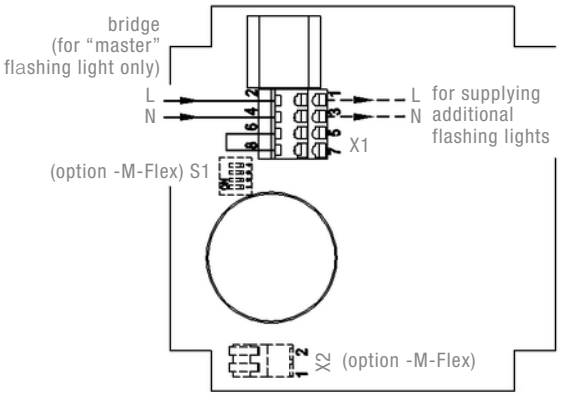


X2-alarm output

Additional mounting possible via external lugs (included).

DIP SWITCH SETTING				SETTING	
4	3	2	1	Frequency (Hz)	Flash energy (J)
				1	13
			ON	1.33	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	11
ON			ON	1.75	10
ON		ON		2.5	7.5
ON		ON	ON		7.5
ON	ON				7.5
ON	ON		ON		7.5
ON	ON	ON		 repeating	7.5
ON	ON	ON	ON	only one flash	13
without synchronisation				0.66	7.5

CONNECTION DIAGRAM



ARTICLE NO.	Quadro S-M-Flex
LENS COLOUR	230 V AC
	21042101179
	21042103179
	21042104179
	21042105179

Article numbers for other colours and voltages on request.

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