FLASHING LIGHT 10 J
Quadro F12-SIL



Integrated safety in sturdy Quadro-Design.

- To signal dangerous situations in safety-relevant application such as process and plant safety, e.g.
  - leaks/gas warning, high-pressure/overfi lling
  and machine safety, e.g. as
  - start-up warning, muting indication, machine stop delay warning
- By means of integrated self-monitoring of the devices the normative required, regular inspection of warning devices is ensured.
- The warning devices can be implemented in Safety Instrumented Systems (SIS) up to **SIL 2/PLd.**

We would be more than happy to provide all safety-technical key data.

IP 66 / IP 67 — Schutzarten

IK08 — impact-proof housing

+55 °C / –30 °C — operating temperature

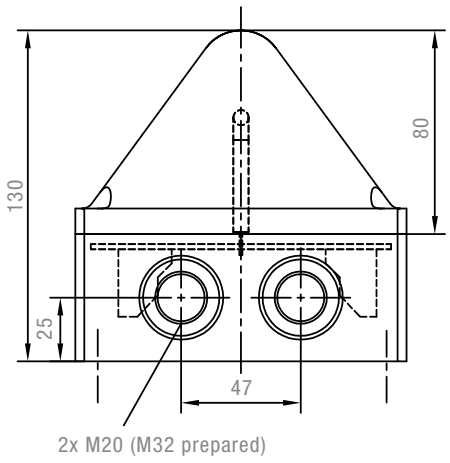
10 Years — warranty

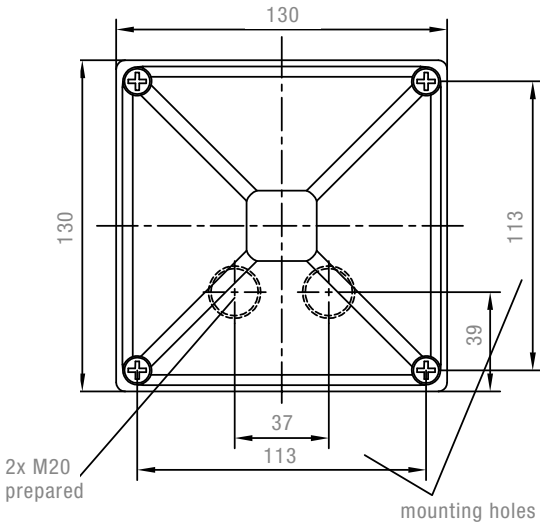
EAC

PRODUCT		Quadro F12-SIL		
DATA				
Rated voltage		230 V	115 V	24 V
		AC 50 I 60 Hz	AC 50 I 60 Hz	DC
Operating range		195–253 V	95–127 V	18–30 V
Nominal current consumption	flashing light	250 mA	350 mA	700 mA
	diagnostics channel	100 mA	100 mA	65 mA
Alarm contact	contact version	positively driven contact (1 x NC, 1 x NO)		
	switching current	max. 6 A		
	switching voltage	max. 250 V AC		
	max. switching power (AC)	1,500 VA		
	recommended min. load	>50 mW		
Flash rate		1 Hz = 60 flashes/min		
Flash energy		10 J		
Light intensity (DIN 5037) [1]		225 cd		
Max. viewing distance		348 m		
Operating temperature		–30 °C ... +55 °C		
Storage temperature		–40 °C ... +70 °C		
Relative humidity		100 %		
Protection system (EN 60529)		IP 66 I IP 67, mounting arbitrary		
Impact resistance (EN 50102)		IK08		
Protection class		II		
Service life of the light source		light emission still 70 % after 8,000,000 flashes		
Material	lens	polycarbonate (PC)		
	housing	polycarbonate (PC), RAL 7035		
Cable entry		2x M20 bottom side / 2x M20/M32 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

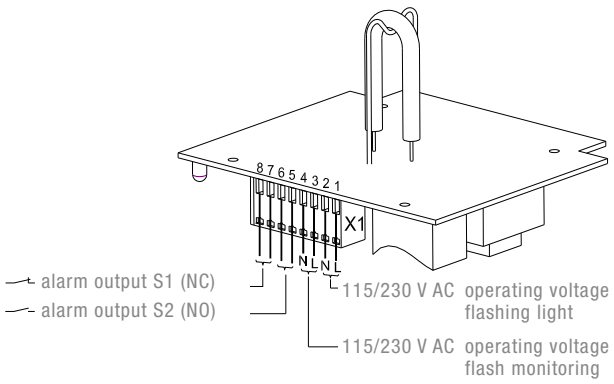
DIMENSIONS

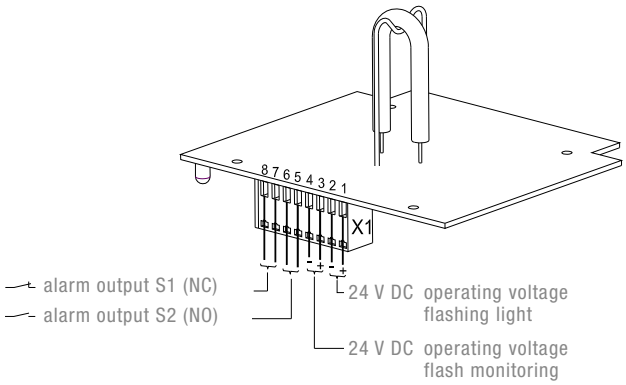




Additional mounting possible via external lugs (included).

CONNECTION DIAGRAMS





ARTICLE NO.	Quadro F12-SIL	
LENS COLOUR	230 V AC	24 V DC
	21041103601	21041803601
	21041104601	21041804601
	21041105601	21041805601

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”.**

The visual alarms fulfill the requirements to the functional safety according to:
EN 61508 Functional safety of electrical/electronic/programmable electronic safety-related systems
EN 61511 Functional safety - Safety instrumented systems for the process industry sector
The devices can be used in safety related control systems in accordance with the following standards:
EN ISO 13849-1 Safety of machinery – Safety related parts of control systems – part 1
EN 62061 Safety of machinery – Functional safety of electrical/electronic/programmable electronic safety-related systems