

# LED MULTI FUNCTION LIGHT

## Quadro-LED Flex-3G/3D



- Designed for tough requirements under industrial conditions.
- Suitable for indoor and outdoor use.
- Suitable for use in potentially explosive areas in Zones 2 and 22.
- Extremely insensitive to shock and vibration.
- Maintenance-free service life exceeding 50,000 hrs.
- Internally and externally selectable operating mode as standard; one device for 4 different alarms:
  - continuous light
  - blinking light
  - flashing light
  - rotating light (non-wearing)
- 24 V AC/DC devices as standard with Soft Start Module.
- Can be operated directly via 24 V transistor PLC output, no additional relay control necessary.
- Inexpensive and flexible; wide range power supplies as standard.



protection system



impact-proof housing



operating temperature

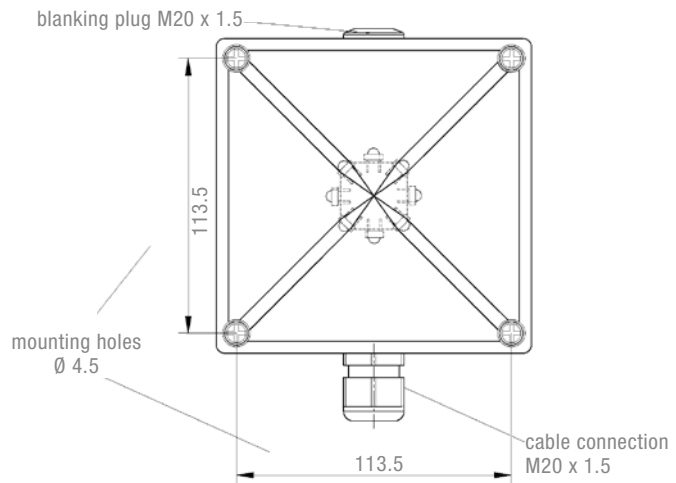
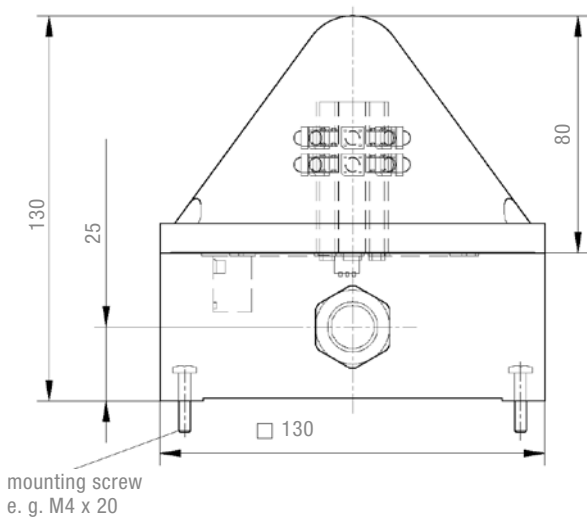


warranty

PRODUCT	Quadro-LED Flex 3G/3D ATEX			
Rated voltage	115 V / 230 V		24 V	
	AC 50   60 Hz		AC 50   60 Hz / DC	
Operating range	AC	95–253 V		15–40 V
	DC			10–60 V
Current consumption in continuous light mode	60 mA		250 mA	
Explosion protection	II3G Ex nR II T5 X –20 °C ≤ Ta ≤ +55 °C II3G Ex nR II T6 X –20 °C ≤ Ta ≤ +50 °C II3D IP66 T 85°C X –20 °C ≤ Ta ≤ +55 °C			
Category (area of use)	3G (Zone 2), 3D (Zone 22)			
Conformity to standards	Guideline 94/9/EG (ATEX 100a)			
Testing body	Pfannenberg			
Special conditions	X: according to the requirements of prDIN EN 60 079-0, DIN EN 61241-0 (2007) and DIN EN 61241-1 (2005), the equipment is suitable for applications with a low degree of mechanical danger. It must therefore be ensured that the light is mounted with sufficient protection against impacts. A protective cage is not mandatory.			
Operating mode (internally and externally selectable)	continuous light	blinking light	flashing light	rotating all-round light
Light alternation frequency		1.5 Hz	1 Hz	2.5 Hz
Light source	LED; 8x 2 pieces (3 chip version)			
Light intensity (DIN 5037) <sup>1</sup>	9 cd			
Operating temperature	–20 °C ... +50 °C (T6) / –20 °C ... +55 °C (T5)			
Storage temperature	–40 °C ... +70 °C			
Relative humidity	100 %			
Protection system (EN 60529)	IP 66; mounting arbitrary			
Impact resistance (EN 50102)	IK08			
Protection class	II			
Duty cycle	100 %			
Service life of the light source	>50,000 hrs			
Material	lens	polycarbonate (PC)		
	housing	polycarbonate (PC), light grey RAL 7035		
Connecting terminals	cage clamp terminal 0.08–2.5 mm <sup>2</sup>			
Cable entry	2x M20 x 1.5 (1x blanking plug, 1x cable connection)			
Weight	500 g			

<sup>1</sup> with a clear lens

**DIMENSIONS**



**OPERATING MODES**

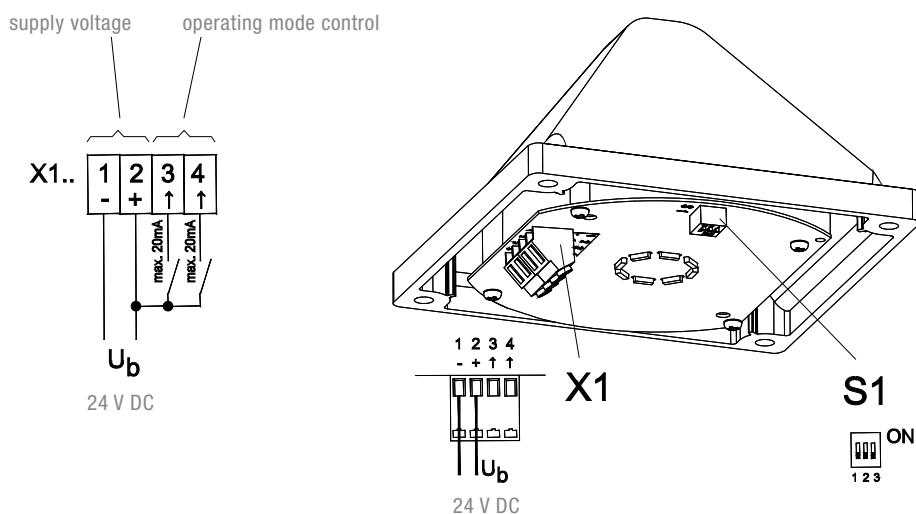
S1			Selection via internal DIP switch	
1	2	3		
OFF	OFF	OFF	OFF	
OFF	OFF	ON	all-round light	2.5 Hz
OFF	ON	OFF	continuous light	
OFF	ON	ON	blinking light	1.5 Hz
ON	OFF	OFF	flashing light	1 Hz
ON	OFF	ON	all-round light	2.5 Hz
ON	ON	OFF	continuous light	
ON	ON	ON	blinking light	1.5 Hz

S1 - 1	X1 - 1	2	3	4	Selection via external control	
(S1-2 = OFF, S1-3 = OFF)						
OFF	-/N	+/L			OFF (standby)	
OFF	-/N	+/L		+/L	all-round light	2.5 Hz
OFF	-/N	+/L	+/L		continuous light	
OFF	-/N	+/L	+/L	+/L	blinking light	1.5 Hz
ON	-/N	+/L			flashing light	1 Hz
ON	-/N	+/L		+/L	all-round light	2.5 Hz
ON	-/N	+/L	+/L		continuous light	
ON	-/N	+/L	+/L	+/L	blinking light	1.5 Hz

ARTICLE NO.	Quadro-LED Flex 3G/3D ATEX	
Lens colour	115 V / 230 V AC	24 V AC/DC
●	21104643009	21104633009
●	21104644009	21104634009
●	21104645009	21104635009

Article numbers for other colours and voltages on request.

CONNECTION DIAGRAM



MANUFACTURER'S DECLARATION

We hereby declare that the explosion-protected means of alarm with the type designation **Quadro-LED Flex 3G/3D** has been developed and manufactured in accordance with the requirements as per EN 60079.

**This declaration is based on compliance with the following regulations and standards:**

- DIN EN 60079-0      Electrical equipment for areas at risk of gas explosions – Part 0: General requirements
- DIN EN 60079-15    Electrical equipment for areas at risk of explosions – Part 15: type of protection type “n”
- DIN EN 61241-0      Electrical equipment for use in areas with combustible dust – General requirements
- DIN EN 61241-1      Electrical equipment for use in areas with combustible dust – protection by enclosure “tD”
- DIN EN 60598-1      Lights – Part 1: General requirements and tests
- DIN EN 60947-1      Low-voltage switchgear – Part 1: General specifications
- DIN EN 60529          Types of protection by enclosure (IP code)
- DIN EN 50102          Types of protection by enclosure for electrical equipment against external mechanical stresses (IK code)
- DIN EN 61000-6-2    Electromagnetic compatibility (EMC) – Part 6-2: Generic standards, noise immunity for industrial areas
- DIN EN 61000-6-3    Electromagnetic compatibility (EMC) – Part 6-3: Generic standards, interference emission for residential areas, business and commercial areas as well as small companies
- DIN EN 981            Machine safety – System of acoustic and visual alarm signals and information signals
- ISO 11429             System of acoustic and visual alarm signals and information signals
- UVV-BGV A3(VBG4)    Electrical plants and equipment
- GSGV                    German Appliance Safety Act

The Quadro-LED Flex 3G/3D multifunction lights are approved for use in potentially explosive areas in Zones 2 and 22 as per 94/9/EU.



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