

# Quadro LED Lights

LED EX

**Extremely bright,** ~ 75 cd (reducible via poti). For Recognition over long distances (LED-HI). Several signal modes selectable:

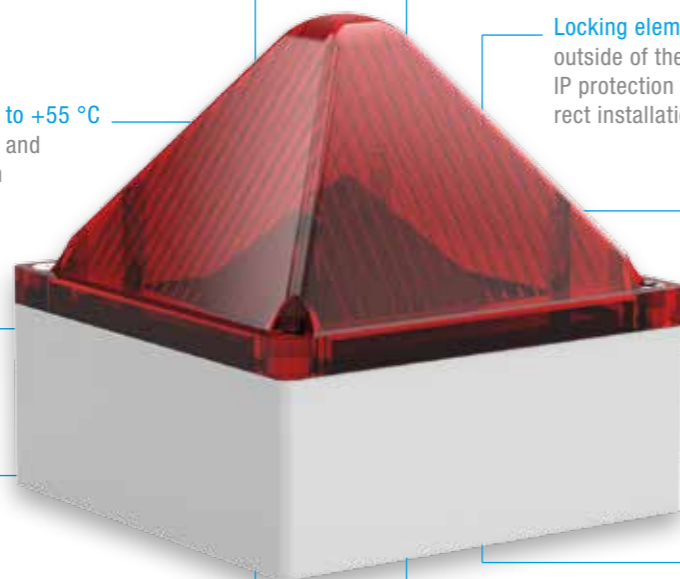
- continuous light.
- blinking light.
- flashing light.

**Ambient temperature:** -40 °C up to +55 °C  
Suitable for all operational areas and applications. Reliable application under all ambient conditions.

**Housing protection:** IP 66/67 and IK08  
Devices can be used for any indoor and outdoor application.

**Inrush current limiter**  
Protection of switching components as e.g. relay contacts.

**All terminals are doubled**  
Providing one input and output per cable core allows daisy-chain installation of several lights without using terminals double.



For use in zone 2 as per EN 60079-10 and zone 22 as per EN 61241-10, classified for categories 3G and 3D (gases and dust in EX area) (LED Flex-3G/3D).

**Locking elements**  
outside of the sealing area. No influence on IP protection of locking elements. An incorrect installation is virtually impossible.

**Wide range power supplies**  
11–60 V DC and 90–253 V AC and DC!).

**Multiple cable entries**  
Flexible electrical wiring for most types of installation.

**Injection moulded gasket**  
non losable for safe and easy mounting.

**External selectable operating mode**  
Easy to adapt to all applications (LED-HI DC).

3D-Coverage performance data, L x W x H

	Quadro-LED-HI	Quadro-LED Flex-3G/3D
<b>Indicate</b>	49.5 x 47.5 x 36 m	25.2 x 38.7 x 9.5 m
<b>Warn</b>	22 x 21 x 16 m	11.2 x 17.2 x 4.2 m
<b>Alarm</b>	11 x 10.5 x 8 m	5.6 x 8.6 x 2.1 m

Coverage area according to the applications „Indicate“, „Warn“ and „Alarm“ (EN 54-23) with clear lens.

Main characteristics of the different Quadro versions

Quadro-LED-HI	Quadro-LED Flex-3G/3D
LED long life and shock resistant – super bright.	LED long life and shock resistant – Ex zone 2/22 certified for explosion proof application. Continuous-, blinking-, flashing- and rotating (non wearing) operation mode adjustable.

Further models on request

Quadro-LED Flex-3G/3D
In 115 V / 230 V AC.

## LED LIGHTS

IP 66 IP 67 IK08 10 Years  
Quadro-LED-HI impact-proof housing warranty



PRODUCT	Quadro-LED-HI	Quadro-LED Flex-3G/3D
ARTICLE NO. <span style="color: yellow;">●</span>	21108643000	21108633000
ARTICLE NO. <span style="color: orange;">●</span>	21108644000	21108634000
ARTICLE NO. <span style="color: red;">●</span>	21108645000	21108635000

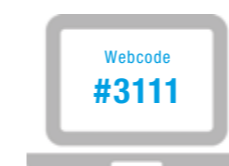
DATA			
Light source	LED		
Operating range	90–253 V	11–60 V	15–40 V AC 10–60 V DC
	AC/DC	DC	AC/DC
Current consumption (@ 1 Hz flash)	45 mA @ 230 V AC	165 mA @ 24 V DC	75 mA @ 24 V DC
Flash energy and flash rate	operating mode internally and externally (DC) selectable		
Light intensity (DIN 5037) <sup>1</sup>	75 cd (reducible)		9 cd
Max. viewing distance			
Operating temperature	-40 ... +55 °C		-20 ... +55 °C
Protection system according to EN 60529	IP 66   IP 67		IP 66
Impact resistance as per EN 50102	IK08		
Service life of light source	>50,000 hrs		>50,000 hrs
Material	lens	/ ● ● ● ● ● polycarbonate (PC)	
	housing	polycarbonate (PC), RAL 7035 ●	
Dimensions (X x Y x Z)	130 x 130 x 130 mm		

For additional models, options and voltages visit [www.pfannenberg.com](http://www.pfannenberg.com) or contact us directly.

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

PRODUCT	Quadro-LED Flex-3G/3D
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)
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.

## EAC



Comprehensive technical documentation such as

- operating instruction, technical data, approvals
- CAD I WSCAD data

can be retrieved by entering this webcode in the search window on [www.pfannenberg.com](http://www.pfannenberg.com)

