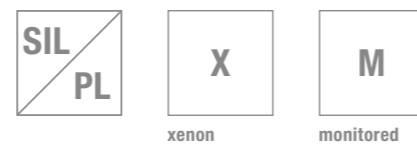


Quadro Flashing Lights



Positive enclosure sealing

Leak path risk is eliminated since the lens fastening screws are located outside the sealing gasket area.

IP 66/67 enclosure rating

Suitable for use in all weather conditions due to the provided protection against driving rain, snow, ice, and dust. Withstands hose-directed spray during wash-down requirements.

Impact resistant housing and lens

Achieves IK08 impact rating to endure harsh environments.

Inrush current regulator

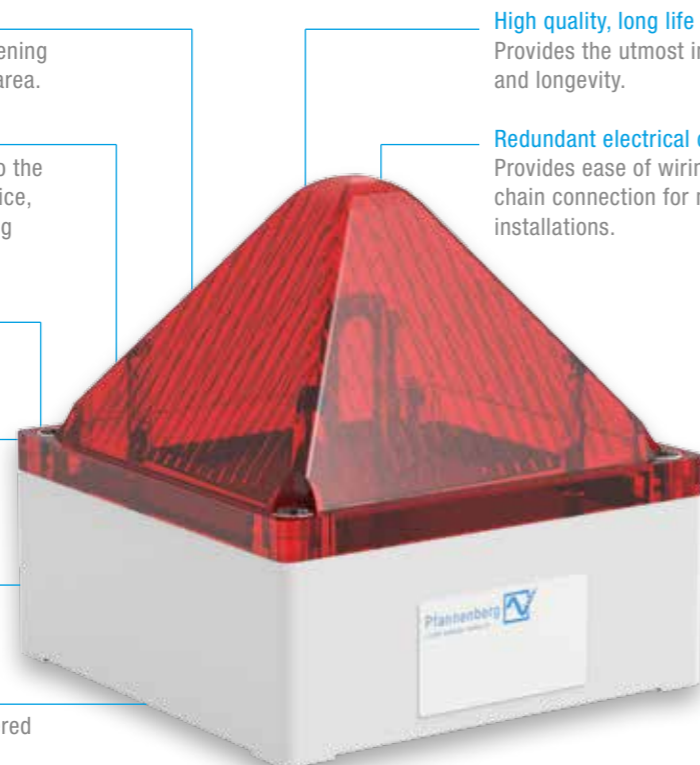
Provides electrical protection for control devices such as switching components and relays.

Flexible wiring schemes

Multiple cable and conduit entries provide ease of installation in any orientation.

-40 °C to +55 °C temperature range

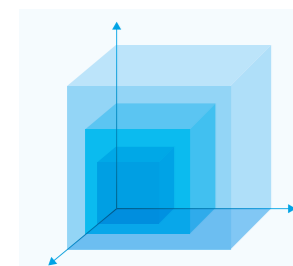
Suitable for use in thermal conditions encountered in factories and all corners of the worlds.



High quality, long life components
Provides the utmost in reliability and longevity.

Redundant electrical contacts
Provides ease of wiring and daisy-chain connection for multi-unit installations.

3D-Coverage performance data, A x B x C



Quadro F12 | Quadro S-M-Flex

Indicate	113.9 x 77.9 x 124.7 m
Warn	50.6 x 34.6 x 55.4 m
Alarm	25.3 x 17.3 x 27.7 m

Quadro F12-SIL

Indicate	106.2 x 80.6 x 106.7 m
Warn	47.2 x 35.8 x 47.4 m
Alarm	23.6 x 17.9 x 23.7 m

Coverage area according to the applications „Indicate“, „Warn“ and „Alarm“ (EN 54-23) with clear lens. To determine the exact signaling area for your needs, please use the online available Pfannenberg Sizing Software PSS.

Several versions to serve specific needs

Quadro F12	Quadro F12-SIL	Quadro S-M-Flex
Standard version with solid-state xenon flash tube.	SIL version suitable for use in safety integrated systems to SIL 2 / PLd. Function monitored with fault relay contact and solid-state xenon flash tube.	Function monitored with fault relay contact and solid-state xenon flash tube. Multi-unit flash synchronisation for daisy-chained installations. On-board, adjustable flash frequency and light output intensity.

Models with alternative features available upon request

Quadro	Quadro S	Quadro R	Quadro DMX	Quadro F12 3G/3D
In 115 V AC and other operating voltages, other colours like blue, green, white, clear.	Multi-unit flash synchronisation for daisy-chained installations and solid-state xenon flash tube.	Solid-state xenon flash tube with integrated random flash function for "sparkling effect". Used for spectacle illumination applications (as featured on the Eiffel Tower).	Solid-state xenon flash tube with integrated DMX control for generating illumination arrangements and light shows.	Solid-state xenon flash tube for hazardous area use. Certified for Ex zones 2 and 22.

FLASHING LIGHTS

IP 66
protection systems

IP 67
protection systems

IK08
impact-proof housing

+55 °C
-40 °C
Quadro F12

Sync
Quadro F12
Quadro S-M-Flex

10 Years
warranty



PRODUCT	Quadro F12	Quadro F12-SIL	Quadro S-M-Flex
ARTICLE NO.	on request	on request	21041101179
ARTICLE NO.	21041103000	21041803000	21041803601
ARTICLE NO.	21041104000	21041804000	21041804601
ARTICLE NO.	21041105000	21041805000	21041805601

DATA		xenon flash tube		
Light source	Operating range	195–253 V	18–30 V	195–253 V
		AC 50 60 Hz	DC	AC 50 60 Hz
Current consumption	flashing light	250 mA @ 230 V	700 mA @ 24 V	250 mA @ 1 Hz / 13 J / 230 V
	diagnostic channel			65 mA
Initial current limited to		<7 A / 150 µs	<5 A / 2 ms	
Alarm contact	version			positively driven contact (1x NC, 1x NO)
Alarm output				230 V / 80 mA
Flash energy and flash rate		13 J @ 1 Hz = 60 flashes/min	10 J @ 1 Hz = 60 flashes/min	max. 13 J flash rate adjustable
Light intensity (DIN 5037) ¹		260 cd	225 cd	260 cd
Max. viewing distance		374 m	348 m	374 m
Operating temperature		-40 ... +55 °C	-30 ... +55 °C	-25 ... +55 °C
Protection system according to EN 60529		IP 66 IP 67, mounting arbitrary		
Impact resistance as per EN 50102		IK08		
Service life of light source		light emission still 70 % after 12,000,000 flashes	light emission still 70 % after 8,000,000 flashes	light emission still 70 % after 12,000,000 flashes
	Material	lens: / ● ● ● ● ● ● polycarbonate (PC)		
		housing: polycarbonate (PC)		
Dimensions (X x Y x Z)		130 x 130 x 130 mm		

For additional models, options and voltages visit www.pfannenberg.com or contact us directly.

¹ with a clear lens



Comprehensive technical documentation such as

- operating instructions, technical data, approvals
- support for planning, 3D models, CAD data

can be retrieved by entering this webcode in the search window on www.pfannenberg.com

