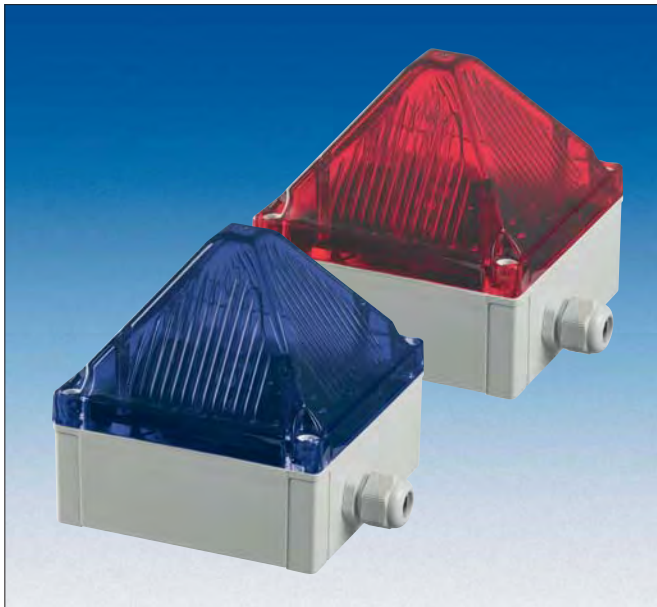


Ex Flashing Light Quadro F12 3G/3D ATEX



The beacon Quadro F12 -3G/3D is designed for heavy duty requirements under industrial conditions and as a visual danger signaller. The beacon suitable for indoor and outdoor use generates bright light pulses which achieve a high attention effect.

- suitable for use in potentially explosive atmospheres of the zone 2 according to EN 60079-10 and zone 22 according to IEC61241-1
- the device meets the requirements of the standards EN50014, EN50021 and EN50281-1-1, prEN60079-0 and prEN60079-15
- can be used for gases of the temperature classes T1, T2, T3 and T4 as well as for non-conductive dusts with consideration that the surface temperature of the device does not exceed 135°C



Protective system



Operating temperature



Storage temperature



Relative humidity

Explosion protection:

Protective system:	IP 66
Explosion protection:	II3G EEx nR II T4 X -20 °C ≤ Ta ≤ +50 °C II3D IP66 T135°C X -20 °C ≤ Ta ≤ +50 °C
Standard conformity:	Guideline 94/9/EG (ATEX 100a)
Category (areas of application):	3G (zone 2) 3D (zone 22)
Special conditions:	X: According to the requirements of prDIN EN 60 079-0 and DIN EN 50 281-1-1, the operating equipment is suitable for uses with a low degree of mechanical hazard. Therefore care is to be taken to ensure that the beacon is fitted adequately protected from mechanical impact. A protecting cage is not mandatory.

Optical data:

Light intensity (DIN 5037):	
clear	118 candela
white	39 cd
yellow	47 cd
amber	61 cd
red	18 cd
green	24 cd
blue	17 cd

Flashing sequence:	0,83 Hz = 50 flashes/min
Flashing power:	10 joules
Lifetime of flash tube:	after 8.000.000 flashes still approx. 70 % light emission
Duty cycle:	100%

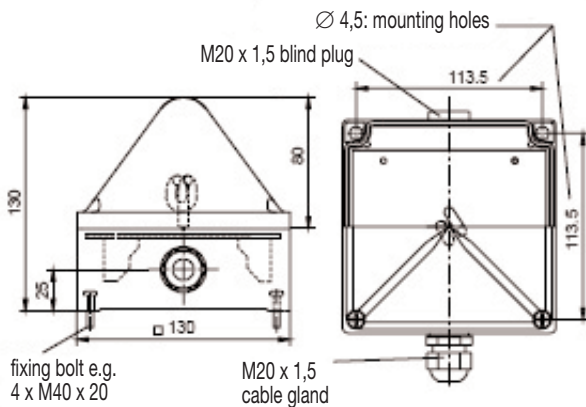
Electrical data: AC 50Hz/60Hz

Rated voltage	Electrical data	Quadro F12 3G/3D
230V	Voltage range: Current consumption: Inrush current limited to:	195V...253V 135mA < 7A / 150µs
115V (on request)	Voltage range: Current consumption: Inrush current limited to:	95V...127V 290mA < 7A / 150µs

DC

Rated voltage	Electrical data	Quadro F12 3G/3D
24V	Voltage range: Current consumption: Inrush current limited to:	18V...30V 600mA < 5A / 2ms

Mechanical data:



Mechanical data:	Quadro F12 3D/3G
Cable gland	2 x M 20
Terminals	cage clamps 0,08 - 2,5 mm ²
Weight	600 g
Material of dome	polycarbonate PC
Material of housing	polycarbonate (PC), RAL 7035 (RAL 3000 optional extra)
Resistance against impact	IK08 (EN50102)
	PCB dip-varnished to protect against moisture
Standard:	
Operating temperature	-20 °C (- 4 °F) ... +50 °C (+ 122 °F)
Storage temperature	-40 °C (- 40 °F) ... +70 °C (+ 158 °F)
Relative humidity	100%
Degree of protection	IP 66 (EN 60529), all installations
Protective class	II
Approvals	GOST

Declaration of manufacturer

We herewith declare that the explosion-proof flashing light with model designation

Quadro F12 3G/3D

was developed and manufactured to comply with EN 50014.

This declaration is issued in accordance with the following European Standards:

94 / 9EC	CE-Conformity
DIN EN 60598-1	Lights - Part 1: General requirements and tests
DIN EN 61000-6-2	Electromagnetic compatibility, Immunity for industrial environment
DIN EN 61000-6-3	Electromagnetic compatibility, Emission standard for residential, commercial and light-industrial environments
DIN EN 50021	Electronical devices for hazardous environments – type of protection “n”
DIN EN 60079-15	Electronical devices for hazardous environments – type of protection “n”
DIN EN 50281-1-1	Electrical apparatus for use in the presence of combustible dust
DIN EN 60079-0	Electronical devices for gas hazardous environments – Part 0: General requirements
DIN EN 55022	Information technology equipment, Radio disturbance characteristics
DIN EN 60947-1	Low-voltage switchgear and controlgear
DIN EN 60529	Degrees of protection provided by enclosures (IP-Code)
DIN IEC 60326-3	Printed boards, design and use of printed
DIN EN 981	System of auditory and visual danger and information signals
ISO 11429	System of auditory and visual danger and information signals
DIN EN 50102	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts
DIN EN 50262	Metric cable glands for electrical installations

The flashing light Quadro F12 3G/3D is approved for use in hazardous environments, zones 2 and 22 in compliance with 94 / 9 / EG.