TRAFFIC LIGHT
Quadro LED-TL



Bright LED signal lights for traffic light applications, e.g. for
- traffic routing in non-public areas
- conveyor and storage systems
- crane safety (see also 'Regulations and standards for crane applications')
- container handling systems

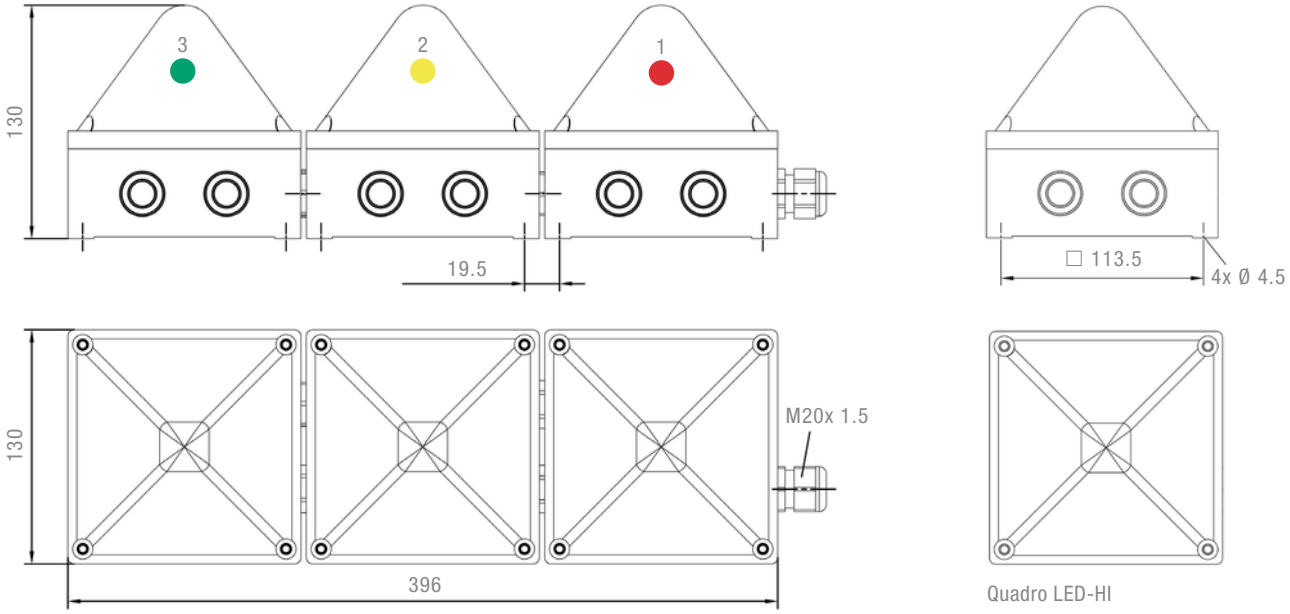
- Extraordinary housing protection (IP 66, IK08 and UV-protected PC housing) and innovative LED technology provide for very bright signals, long service lives and reliable operation.
- Mounted using external lugs or internal holes that do not impair the IP protection; mounting can be performed in any direction.
- Preassembled as traffic light and ready to connect.
- Adjustable steady light or flashing light function provides indication of special operating conditions, e.g. on cranes or machines
- Also available as non-preassembled version (Quadro-LED-HI).

IP 66 — protection system
IK08 — impact-proof housing
+55 °C / –40 °C — operating temperature
brightness adjustable
10 Years — warranty
EAC

PRODUCT		Quadro LED-TL	
DATA			
Rated voltage		115/230 V	24 V
		AC 50 I 60 Hz / DC	DC
Operating range		90–253 V	11–60 V
Current consumption (@ 1 Hz flash, ● ● ●)[1]		45 / 55 / 55 mA @ 230 V AC	165 / 165 / 165 mA @ 24 V DC
Operating mode		continuous light I blinking light 1 / 2 Hz I flashing light 0.1 / 0.5 / 0.75 / 1 / 2 Hz	
Control of operating mode		internally	internally / externally
Light source		4 high output LED per single unit	
Light intensity (DIN 5037) [2]		75 cd (reducible) per single unit	
Max. viewing distance		201 m	
Operating temperature		–40 °C ... +55 °C	
Storage temperature		–40 °C ... +70 °C	
Relative humidity		100 %	
Protection system (EN 60529)		IP 66	
Service life of the light source		≥50,000 hrs	
Material	lens	● ● ● polycarbonate (PC)	
	housing	polycarbonate (PC), grey RAL 7035	
Cable entry		M20/M32 sideways, other imprints prepared	
Connecting terminal		cage clamp 0.08–2.5 mm² (in the red light)	
Mounting		external lugs or internal holes	
Weight		3x 500 g	

[1] Other colors and operating modes, see manual
[2] with a clear lens

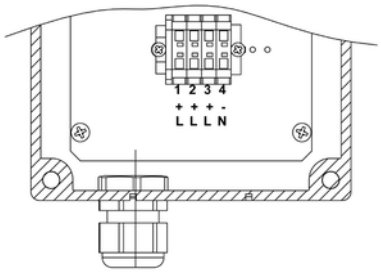
DIMENSIONS



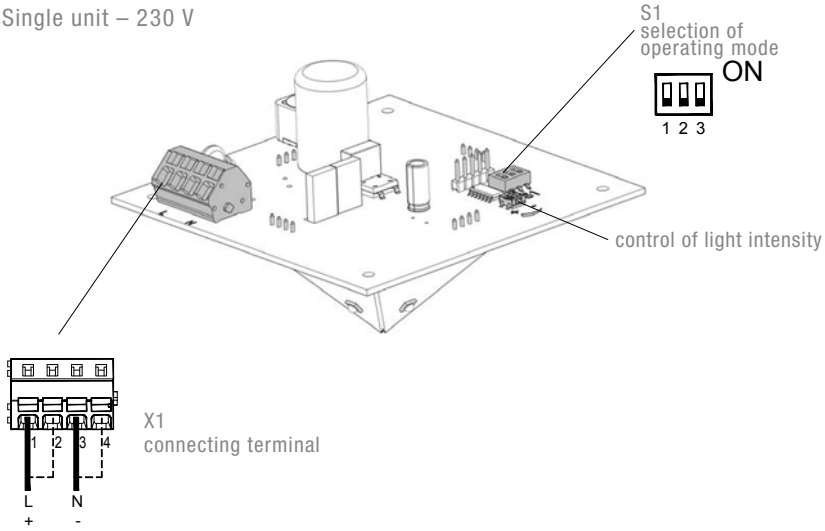
Quadro LED-HI

CONNECTION DIAGRAMS

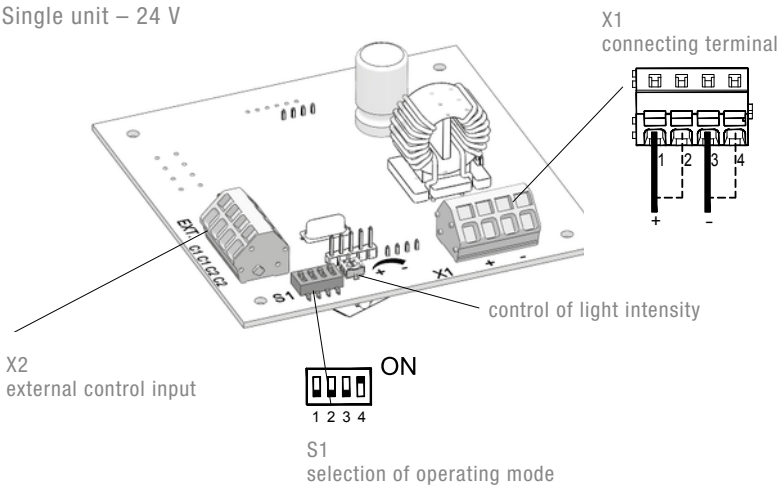
Quadro-LED TL



Single unit – 230 V



Single unit – 24 V



ARTICLE NO.	Quadro LED-TL	
LENS COLOUR	115/230 V AC	24 V DC
	21106640008	21106630008

Article numbers for other combinations on request.

For single units please use the Quadro LED-HI

ARTICLE NO.	Quadro-LED-HI	
LENS COLOUR	230 V AC	24 V DC
	21108643000	21108633000
	21108644000	21108634000
	21108645000	21108635000

Article numbers for other colours on request.

OPTIONS/ACCESSORIES

Enclosure fitting

Article no.
28112000003

Regulations and standards for crane applications		
DIN-EN 13000:2004-09 Cranes – truck-mounted cranes	Visual warning to the driver (EN 842) in the case of	• approaching the load capacity (at 90–98.5 % of the permissible load capacity) • triggering of the overload safety system • overriding of the overload safety system
DIN-EN 14439:2006 Safety – rotating tower cranes	Visual warning by the crane driver (EN 457) to persons in the vicinity in the case of	• remote control – green, continuous light • anti-collision – white, blinking light • rotating (in some cases when required by local authorities) – green, blinking light
	Visual warning to the driver (EN 842) in the case of	• approaching the load capacity (at 90–95 % of the permissible load capacity) – yellow, continuous light • wind warning and alarm – yellow, blinking light and red, blinking light

CONFORMITY TO STANDARDS

The visual characteristics of LED 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”.**

References to visual alarm devices can be found in the following standards:

EN 60825-1	Radiation safety of laser devices, identical to IEC 825 and DIN-VDE 0837
DIN EN 54	Fire alarm systems
DIN 54113-2	Radiation protection regulations for the technical operation of X-ray equipment up to 500 kV