Traffic light Quadro LED-TL





Protection

system



housing

Impact-proof







Light sensor

· bright LED signal lights for traffic light applications, e.g. for

- traffic routing in non-public areas
- conveyer and storage systems
- crane safety (see also 'Regulations and standards for crane applications', page 87)
- container handling systems
- extraordinary housing protection (IP 66, IK0 8 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
- also available as non-preassembled version
- optionally with integrated light sensor for optimal adaptation to the ambient light (glare avoidance)

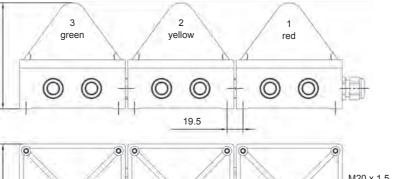
Electrical data	Quadro LED-TL	
Rated voltage	115 / 230 V AC	24 V DC
Rated frequency	50 Hz / 60 Hz	
Operating range	85 V – 265 V	10 V – 30 V
Max. current consumption	60 mA / 30 mA	1.06 A

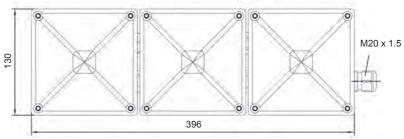
Mechanical data	ı	Quadro LED-TL	
Operating mode		LED continuous light	
Light source		high output LED array	
Light intensity (DIN 5037)		> 80 cd	
Lens colours		red / yellow / green	
Operating temperature		- 30 °C + 55 °C	
Storage temperature		- 40 °C + 70 °C	
Relative humidity		95%	
Protection system according to EN 60529		IP 66; IK 08 (EN 50102), mounting arbitrary	
Duty cycle		100%	
Service life of light source		> 50.000 hrs	
Material -	lens	polycarbonate (PC), UV-resistant	
	housing	polycarbonate (PC), UV-resistant, RAL 7035	
Cable entry M20/M32 sideways, other imprint		M20/M32 sideways, other imprints prepared	
Connecting terminals		spring-type terminal 0.08 – 2.5 mm² (in the red light)	
Mounting		external lugs or internal holes	
Weight		1.32 kg	

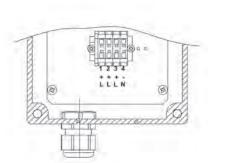


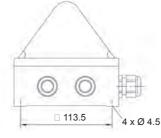
Dimensions

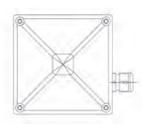
Connection diagrams

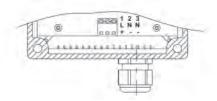












Ordering details **Article numbers Quadro LED-TL** Quadro LED-TLi (with light sensor) 115/230 V AC 115/230 V AC Lens colour Rated voltage 24 V DC 24 V DC 211 06 64 0 008 211 06 63 0 008 211 07 64 0 008 211 07 63 0 008 red / yellow / green yellow 211 06 64 3 000 211 06 63 3 000 211 07 64 3 000 211 07 63 3 000 211 07 63 5 000 211 06 64 5 000 211 06 63 5 000 211 07 64 5 000 red 211 06 64 6 000 211 06 63 6 000 211 07 64 6 000 211 07 63 6 000 green

Article numbers for other combinations on request

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 suppler

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

Radiation safety of laser devices, identical to IEC 825 and DIN-VDE 0837

Further technical information can be found on our website at www.pfannenberg.com

Radiation protection regulations for the technical operation of X-ray equipment up to 500 kV DIN 54113-2

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 		