

# Mobile LED lighting for temporary pedestrian crossings



## Mobile LED lighting for protecting pedestrians at zebra crossings at road works and changed road layouts.

**Protecting pedestrians at road works is extremely important. Additional lighting is therefore necessary at temporary zebra crossings, just as at permanent pedestrian crossings. Our mobile lighting system is used for this purpose.**

According to road traffic regulations, pedestrians at pedestrian crossings corresponding with sign 293 have priority over motor traffic. In this case the applicable road safety obligations are derived from § 823 German Civil Code (Liability), extending also to include a lighting obligation. When it is dark, pedestrians using the zebra crossing to get across the road must be clearly visible if accidents are to be avoided. Particularly with temporary pedestrian crossings at road works and changed road layouts, the existing street lighting is often not sufficient. The safety requirements can only be met with additional lighting.

According to standard DIN 67523-1, two additional lights must be installed at every pedestrian crossing on roads with oncoming traffic to ensure pedestrians are illuminated from every direction. The additional lights are to be positioned before the pedestrian crossing in each direction of travel and must be operational throughout all the hours of darkness.

The above photograph makes the difference in lighting particularly clear when looking at the second temporary zebra crossing in the course of the road. Here, the additional lighting had still not been installed at the point in time when the picture was taken. The difference is really like day and night!

The mobile pedestrian lighting consists of two bright LED road lights (please turn the page for technical data) including controller for operating with 230 volt AC or 12 volt DC. The scope of supply also includes all necessary holders, connection cables and leads, likewise for the opposite side of the road. On request, it is also possible to supply an all-in solution that is ready for immediate use, including mounting devices, 7m masts and overhead cabling. The controller is fitted with a dimmer switch with timer that can be adjusted easily using Bluetooth (password-protected). For servicing purposes it can also be operated with the knob (on/off/automatic). Two control lamps show which voltage is present: 230 volt or 12 volt. A safety plug is responsible for the 230 volt power supply, which can also come from the EPB network cable in our traffic lights. Masts with integrated battery casing are available for temporary 12 V operation.

## Mobile LED lighting for temporary pedestrian crossings

The mobile masts are equipped with an overhead cabling unit for easy cable routing. A square tube top element allows for heights of 7 m. Putting sufficient K1 base plates in the TL sign stand results in great stability. Two identical mobile masts (type A) each weighted down with 14 K1 base plates are used for operation with 230 volt.

When working with 12 volt, a battery casing with 4 12 V/180 Ah batteries is fastened to the sign stand (type B). In this case, 7 additional K1 base plates are needed for structural reasons. Cable wreaths at the top of the masts ensure the cable connection to the other side. This results in a stable installation with simultaneous power supply to both sides. A possibility for earthing the mobile masts is provided.

The masts have gone through structural analysis testing for LED lighting and the overhead cabling.

Technical data mobile masts	
Total height steel mast	7 m
Overhead cabling	height of 7 m
Installation height light	5.5 m over ground
Basic area alumin. stand	1,020 x 920 mm
Type A no. base plates	14 x K1 each 28 kg
Type B with battery casing	space for 4 x 12V / 180Ah
Type B battery casing dim.	550 x 690 x 565 mm (WxHxD)
Type B no. base plates	7 x K1 + 4 batt. 12V / 180Ah
Weight incl. light	type A: 472kg / type B: 474 kg

The LED street light provides immediate luminosity straight away without any switch-on delay. The light colour normal white (4000 Kelvin) is ideal for lighting at roads and pedestrian crossings as it makes everything clearly and easily visible even in foggy weather conditions.

Technical data LED light	
Light colour	normal white (4000 Kelvin)
Output	70 watt
Luminous flux	9,800 lumen +/- 5%
Rated light output	140 lm/W
Beam angle	120° (broad beam)
Service life LED chip	approx. 200,000 hours



The mobile lighting system by Berghaus has been tested by an independent sworn expert for lighting temporary pedestrian crossings as per DIN 67523 and DIN 13201-1.



**Peter Berghaus GmbH**  
 Herrenhöhe 6  
 51515 Kürten-Herweg  
 T +49 2207 9677-0  
 F +49 2207 9677-80  
 mail@berghaus-verkehrstechnik.de  
 www.berghaus-verkehrstechnik.de



Subject to technical changes and errors.  
 Products may differ from illustrations shown.  
 All details are approximate.