

Sequential Emergency Services Lamp - Pro-B-LITE



INTELLIGENT WIRELESS TECHNOLOGY PROVIDES SEQUENTIAL DIRECTIONAL GUIDE

OUTSTANDING PERFORMANCE USING A SINGLE SUPER BRIGHT LED

INDEPENDENTLY PROVEN TO IMPROVE LANE DISCIPLINE

RELIABLE ALTERNATIVE TO FLARES

RECHARGEABLE BATTERY OPERATION

COMPUTER DESIGNED HIGH CLARITY POLYCARBONATE UNI-DIRECTIONAL LENS

CONCEALED EASY TO USE ON/OFF SWITCH ALLOWS RAPID DEPLOYMENT



CARRYING HANDLE FITTED AS STANDARD

AVAILABLE IN RED, AMBER AND BLUE

LAMPS CAN BE PLACED IN ANY ORDER IN A STAGGERED TAPER TO GIVE THE IMPRESSION OF A SINGLE LIGHT SOURCE TRAVELLING FROM FRONT TO BACK

UP TO 3 SETS OF LAMPS CAN BE DEPLOYED IN SEQUENCE TO ALLOW A 15 LAMP TAPER TO BE CONSTRUCTED FOR 2 TO 3 LANE CLOSURES

CONE BRACKET SUPPLIED

LENS CAN BE ROTATED SO UNITS CAN BE LAID ON GROUND AS DEPICTED OPPOSITE

FITS COMFORTABLY IN TRUNK OF VEHICLE WITH 12V ADAPTOR

PROVIDES A SAFER ROAD TRAFFIC ENVIRONMENT FOR ALL

SPECIFICATION (Generic)

Model Ref.	PSB6N/BO/P/H/AA (BLUE) PSB6N/AO/P/H/AA (AMBER) PSB6N/RO/P/H/AA (RED) ProBASE5 Charger, Part code PD65.64002
Display Technology	High Intensity Single Super bright LED. Visible in all lighting conditions, current controlled to maintain a constant light output as the battery Voltage drops. High clarity Uni-Directional self coloured polycarbonate lens with super bright single LED technology
Operation	Lamps are turned on via concealed ON/OFF button on front face. The lamps communicate with intelligent wireless technology allowing units to be laid out in a staggered taper in any order and will automatically synchronize to produce the visual impression of a single light source travelling front to back along the taper. The vehicle trunk kit comprises 5 lamps, ProBASE5 charger and 3M 12V vehicle outlet charging lead. Lamps are supplied with cone bracket but can easily be laid on the ground either vertically or as pictured above. Up to 3 sets of PRO B-Lite kits may be used in tandem to create a longer taper where required. Spacing between lamps can be from 2.2M to up to 10M. It is essential all opaque lenses face in the same direction . They may be placed with a stagger of up to 1.5M.

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SPECIFICATION, continued...

Power Supply	Each lamp is fitted with a 6VDC Ni-CAD rechargeable battery. Initial current drawn (assuming 5 lamps charge) 750mA max @13.6V DC Lamps fully charged approximately 16 hour operation, recommended in line fuse 2Amp.
ProBASE5 charger	Designed to fit into the trunk of any vehicle , manufactured from high impact ABS with built in stainless steel contacts giving corrosion free operation. When lamps require recharging the user simply places the lamps either way round into a vacant space, the charge indicator lamp will illuminate to indicate charging is taking place. Contact is made automatically , circuitry is incorporated into each lamp to regulate charge.
Flash Rate	60Hz
Independent Safety Testing for improved lane discipline	<p>A UK TRL (Transportation Research Laboratory) independent field study conducted during 2002 on the analysis of the safety benefit of deploying sequential SynchroGUIDE lamps as oppose to static lamps involved alternating the deployment of both types of lamp at the same location over the same nigh-time periods of between 22:00 to 0300 hrs over a 2 week period.</p> <p>Loops were stationed every 100m in the closed lane from the entrance to the lamps up to 1100m, the graph below shows the traffic counts recorded at every 100m intervals from the zone entrance. The yellow bar is for static lamp and the green bar is for the sequential SynchroGUIDE lamp.</p> <p>The results were impressive with a significant improvement on driver lane discipline in advance of the safety zone with deployment of the sequential lamps.</p> <p>The effectiveness of the sequential lamps is seen consistently from a point 500M from the taper, but also has an effect in half the cases at 600M from the taper.</p>

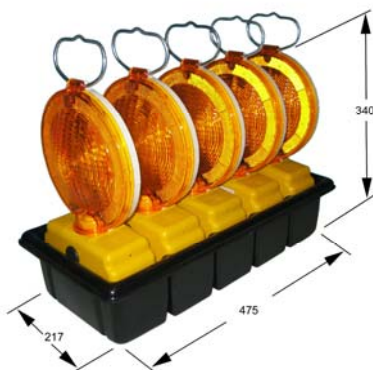
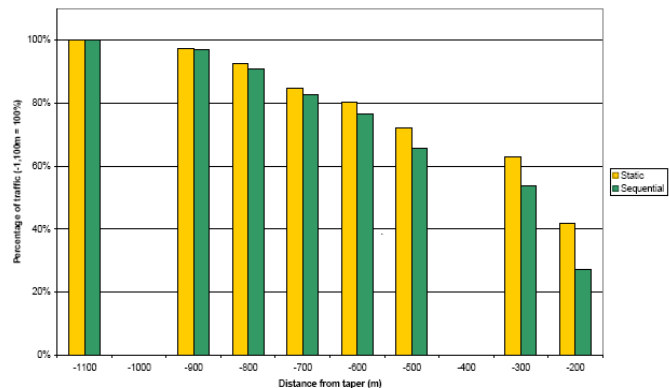


Figure 4: Traffic profile (normalised) approaching the cone taper (corrected data)



ENCLOSURE

Outdoor Application	All circuitry within the lamps are fully 'burn in' tested for 24 hrs @ 40°C and moisture protected.
Mechanical	Polypropylene body giving a very robust case in all extremes of ambient temperature the lenses are manufactured from high impact polycarbonate with various colour options. All lamps come with carrying handle fitted as standard. Weight 0.3Kgs/0.6Lbs per lamp.
Mounting	A cone mounting bracket is available to allow cone mounted deployment. Normally the lamps are mounted directly on the ground. A unique lens rotation design allows for the centre of gravity of the lamp to be lowered to ensure good friction to road surface.
Dimensions	217mm Wide x 475mm Long x 340mm High (see drawing above)