

# Halo Plus2 - Networkrail Approved

## LED Personal Signalling Lamps



- Various colour combinations including BS1376 Class B output
- Low LED battery consumption giving up to 20 hours signalling
- White LED option provides up to 20 hours diffused lighting

- High operational safety failure of one LED does not affect others
- Typical LED life-span 60 000 hours without colour degradation
- Powerful halogen spotlight gives 3-5 hours duration



- Optional low battery indicator (20 mins warning)
- Extremely robust construction with belt clip and Polycarbonate lens
- Compact and lightweight (only 400g) including batteries

- Choice of environmentally-friendly Ni-MH battery pack, Ni-Cad or disposable "C" cells in removable cassette
- Wide range of single and 5-way mains and vehicle chargers including electronic fast chargers (charge time 1.5 - 2.5 hours)



Unit 3 & 4 Waltham Park Way  
Billet Road, Walthamstow London  
E17 5DU  
[www.spartansafety.co.uk](http://www.spartansafety.co.uk)



# Halo Plus2 - Networkrail Approved

## LED Personal Signalling Lamps

The Halo Plus 2 Signal Lamp may be specified with between 7 and 21 LEDs. These are mounted on a ring around the normal reflector and are controlled by a rocker switch and colour-coded pushbuttons.

### Basic Operations HP-113RT:

Rocker Switch UP: Halogen Spotlight  
Rocker Switch DOWN: Red LEDs  
Orange Push-Button: Yellow LEDs  
Green Push-Button: Green LEDs

### Signal Lamps:

HP-11R: 7 Red LEDs  
HP-11R2: 7 Red + 7 Green (568nm) LEDs  
HP-11R3: 7 Red + 7 Yellow + 7 Green (568nm) LEDs  
HP-11R2BG 7 Red + 7 Signal Green (505nm) LEDs  
HP-11R3RT◆: 7 Red + 7 Yellow + 7 Signal Green  
(505nm) LEDs  
HP-11RW: 7 Red + 7 White LEDs

\* Other colour combinations available on request  
◆ Network Rail Approval Certificate No:PA05/00965.



### Chargers:

All chargers come either as single or 5-way units

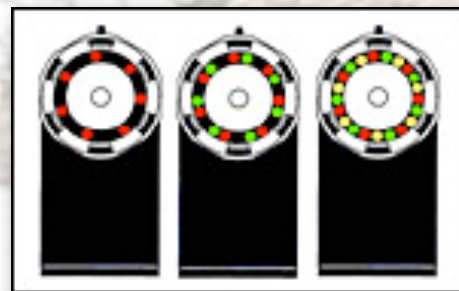
Standard type:

Operate at 230V, 24V or 12V with a charging time of approx. 14-16 hrs. should not be left for more than 24 hrs.

HTS Hi-Tec type:

Operate at 230V, 24V, 12V or 10-30V with a charging time of approx. 10 hours can left on charge, once fully charged a maintenance charge takes over.

Fast Hi-Tec type: Operate at 230V, 24V or 12V with a charging time of approx. 2 hours can be left on charge, once fully charged a maintenance charge takes over.



### Batteries:

Alkaline: 3 cells will give 5 hrs halogen spot or 20 hrs LED signalling

NiCad: 3 cells 2.2Ah will give 3 hrs halogen spot or 16 hrs LED signalling

Ni-MH: 3 cells 3.3 Ah will give 4.5 hrs halogen spot or 20 hrs LED signalling

Unit 3 & 4 Waltham Park Way  
Billet Road, Walthamstow London  
E17 5DU  
[www.spartansafety.co.uk](http://www.spartansafety.co.uk)

