

## UltraRAY®-R “Rotating” LED Warning Beacons



UltraRAY®-R LED warning beacons are optimized to deliver high visibility warning signals in the dusty conditions encountered on surface mining operations - day and night. The new range of UltraRAY®-R beacons feature user-selectable ‘rotating’ or quad flash patterns.

UltraRAY® beacons are extremely robust, tolerant to severe vibration levels and very compact in design. Each beacon is equipped with a high impact and shock resistant, polycarbonate lens bolted to a heavy-duty cast alloy base, sealed by a neoprene O-ring against dust and water ingress. The UV resistant multi-stage powder coating process ensures optimal corrosion protection. UltraRAY® LED warning beacons are maintenance free with no moving parts or fragile globes.

UltraRAY®-R ‘rotating’ beacons incorporate the unique Hella Helioshield™ technology developed specifically for warning beacons used on mine sites to significantly increase the signal

contrast against bright-sky or snow backgrounds and reduce the occurrence of phantom signals in direct sunlight.

All UltraRAY®-R LED beacons are highly energy efficient delivering up to 70% energy saving over conventional beacons, which greatly reduces both operating temperature and demand on the vehicle’s electrical system. Maximum service life and light output of the high intensity LEDs is ensured through integrating the heat sinks into the cast alloy base. The Multivolt™ control module encapsulated directly into the base ensures full light intensity independent of supply voltage and protects the beacon against damage from overheating, reverse polarity and short circuits.

Safe and reliable electrical connection is facilitated via a highly flexible double-insulated cable sealed into the base, terminated with bare wire ends. Other connector options can be supplied as special orders.

UltraRAY® beacons are available in five LED signal colours (amber, red, blue, green and white) to suit all signal applications. Installation is possible with either the standard direct mount or an optional pipe mounting kit. Temporary use applications are best served with the magnetic mount version, complete with a pre-wired cable and power plug.

### Product Features

- User selectable ‘rotating’ or quad flash patterns\*
- SAEJ845 Class I (red and amber)
- Impact resistant polycarbonate lens
- Precision fresnel optics
- Cast alloy base
- Direct, pipe mount or magnetic installation options
- Multivolt 12-30V DC
- Low current draw
- Fully encapsulated electronics
- 200G shock impulse resistant
- Overheat, reverse polarity and short circuit protection
- Double insulated supply cable
- O-ring seals
- Tested over a -20°C to +50°C temperature range
- High efficiency, long life LED light
- IP6K5
- Unique Helioshield™ ambient light suppression improves daylight visibility

\*Preset to ‘rotating’ pattern

### Specifications

Voltage	Multivolt 12-30V DC
Power Consumption	20W Max.
Frequency	Rotating 80 cycles per minute Flash 72fpm (quad)
Temperature Range	-20°C to +50°C
Lead Length	2 metres (double-insulated cable)
Protection	Overheat, reverse polarity and short circuit protected. Sealed against dust and moisture to IP6K5. Shock resistant to 200G.

Description	Part No.
<b>AMBER</b>	
Direct Mount	HM450ADIR
Magnetic Mount	HM450AMAG
<b>RED</b>	
Direct Mount	HM450RDIR
Magnetic Mount	HM450RMAG
<b>BLUE</b>	
Direct Mount	HM450BDIR
Magnetic Mount	HM450BMAG
<b>GREEN</b>	
Direct Mount	HM450GDIR
Magnetic Mount	HM450GMAG
<b>WHITE</b>	
Direct Mount	HM450WDIR
Magnetic Mount	HM450WMAG



### Spare Parts

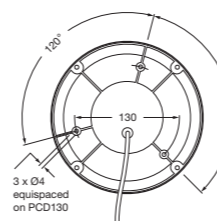
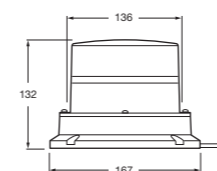
9.HM450ALENS	Amber PC Lens
9.HM450RLNS	Red PC Lens
9.HM450BLENS	Blue PC Lens
9.HM450GLENS	Green PC Lens
9.HM450WLENS	White PC Lens
HM400PIPE	Pipe Mount Kit



Polycarbonate lens with Helioshield™

Cast alloy base

Rubber vibration insulator



Amber

Red

Blue

Green

White