Permanent Airport Light

PAL

ALS
PAL

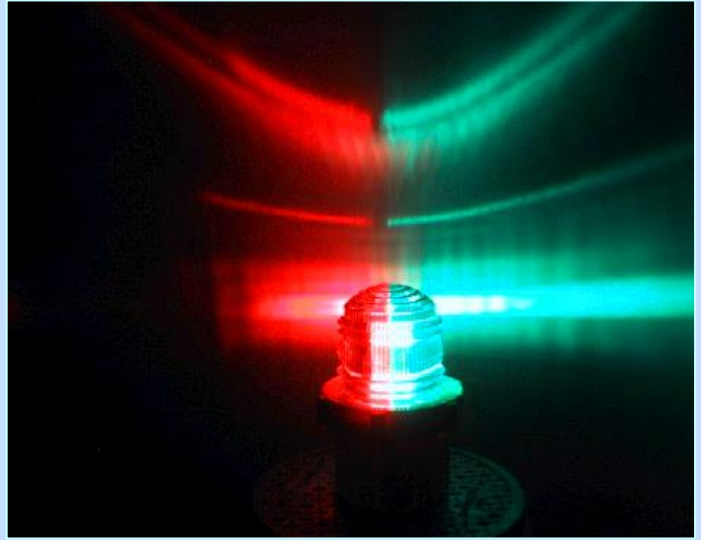**Airport Lighting Specialists**

Features

- ➤ PAL lights are fully MOS139 compliant.
- ➤ Made in Australia for harsh conditions.
- ➤ Tough polycarbonate body and lens that won't rot, rust or crumble.
- ➤ Lenses are guaranteed for 5 years – you can't break a single-coloured lens.
- ➤ We make them, so spares are always available.
- ➤ Many lamp variants are available to suit your Requirements.
- ➤ Standard mounting bolt pattern allows easy upgrades when replacing your old lights.
- ➤ No threads on lens means lenses don't jam and break.
- ➤ PAL threshold / end lights are available with a fully MOS139 compliant split Red/Green lens.

Colours

PAL lights are available in all aviation colours.

Green – Outer Threshold
Green / Red – Threshold / End
White – Runway Edge
Blue – Taxiway & Apron Edge, Turning Node
Yellow – Holding Point

Other special combinations of colours can also be supplied on request – just call us.

Easy Mounting

PAL lights can be screwed on top of a pit with the series isolation transformer connected directly from below.

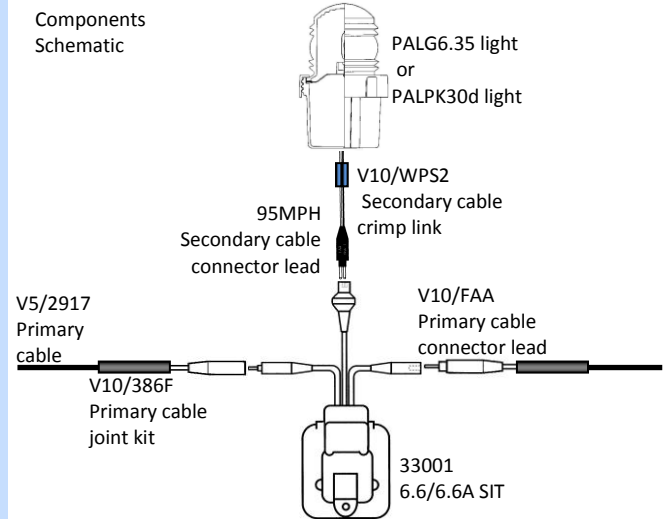Contact us if you need more information – we can supply all the parts you need.

PAL lights for 6.6 Amp circuits

6.6A G6.35 Lamps – small quartz lamp with two pins extending from the base

Green or Green/Red lens : 45W (J1/57)
Clear, Blue or Yellow lens : 30W (J1/74)

6.6A PK30d Lamps – quartz lamp with circular steel reference flange and flying cable leads.

Green or Green/Red lens : 45W (V1/PK30D45)
Clear, Blue or Yellow lens : 30W (V1/PK30D30)

Components Schematic

PALG6.35 light
or
PALPK30d light

V10/WPS2
Secondary cable crimp link

95MPH
Secondary cable connector lead

V5/2917
Primary cable

V10/FAA
Primary cable connector lead

V10/386F
Primary cable joint kit

33001
6.6/6.6A SIT

Compliances

Civil Aviation Safety Authority Australia
   CASA Manual of Standards Part 139, Chapter 9,
   Low Intensity Clauses of Sections 9.10 to 9.15

International Civil Aviation Organization
   ICAO Annex 14, Volume I, Chapter 5,
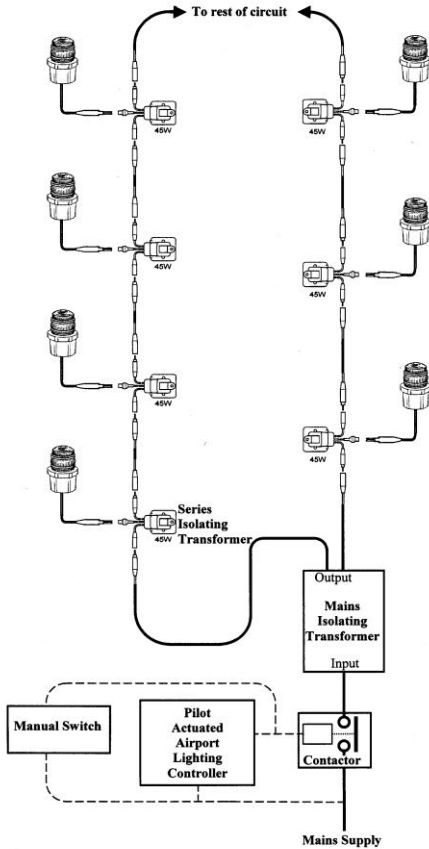   Sections 5.3.9.9, 5.3.10.9, 5.3.11.4, 5.3.16.6

Federal Aviation Administration
   Omni-directional elevated lights per
   FAA AC 150/5345-46 L-860, L-860E, L-861T

They are tough!

Here' something you don't see every day…

That's a 3-tonne truck parked on a PAL lens, just to
show how tough they really are!
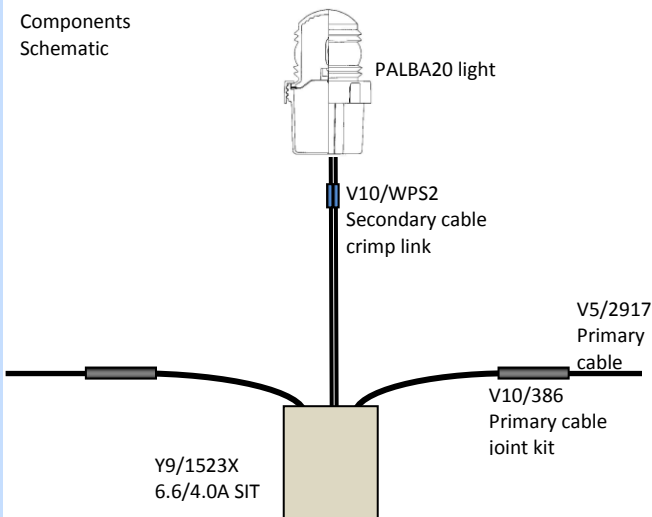(Don't try this at home with a glass lens).

Other items

PAL lights operate as part
of a series circuit, so
naturally we supply all the
other bits as well!

Apart from lights, ALS
offers all you'll need : SITs,
leads, cables, connectors,
lamps, MIT, CCR, PAALC,
AFRU, IWDI, socks, cones,
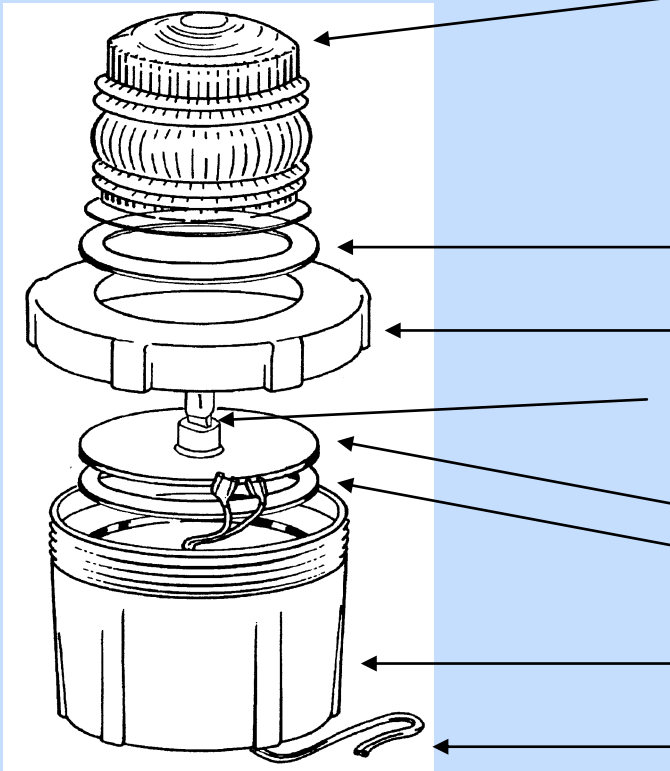gables… The list goes on!

PAL lights for 4.0 Amp circuits

4.0A BA20s Lamps – round glass envelope
and a 20mm diameter base.

Green or Green/Red lens : 48W (V1/2)
Clear, Blue or Yellow lens : 25W (V1/300)

Components
Schematic

PALBA20 light

V10/WPS2
Secondary cable
crimp link

V5/2917
Primary
cable

V10/386
Primary cable
ioint kit

Y9/1523X
6.6/4.0A SIT

Replacement Parts

Lenses :
- **Clear**   **PALCLEARLENS**
- **Blue**   **PALBLUELENS**
- **Yellow**   **PALYELLOWLENS**
- **Green**   **PALGREENLENS**
- **Red**   **PALREDLENS**
- **Red/Green**   **PALREDGREENLENS**

Gasket   **PALGASKET**

Lens Retainer   **PALLOCKRING**

Lamps :
- **Runway/Taxiway :**   **See table below**
- **Threshold/End :**   **See table below**

Lampholder Assembly   **PALLHASSY**

Gasket   **PALGASKET**

Body & Grommet Pack   **PALBODYKIT**

Secondary Cable   **V5/3045**

Stock Codes

Lights to suit 6.6 Amp bi-pin G6.35 lamp

Function	Stock Code	Lamp		
Runway edge	PALG6.35CLEAR	J1/74	30 W	6.6A
Threshold / End	PALG6.35RGMOS	J1/57	45 W	6.6A
Outer Threshold	PALG6.35GREEN	J1/57	45 W	6.6A
Taxiway edge	PALG6.35BLUE	J1/74	30 W	6.6A
Holding point	PALG6.35YELLOW	J1/74	30 W	6.6A

Lights to suit 6.6 Amp PK30d lamp

Function	Stock Code	Lamp		
Runway edge	PALPK30DCLEAR	V1/PK30D30	30W	6.6A
Threshold / End	PALPK30DRGMOS	V1/PK30D45	45W	6.6A
Outer Threshold	PALPK30DGREEN	V1/PK30D45	45W	6.6A
Taxiway edge	PALPK30DBLUE	V1/PK30D30	30W	6.6A
Holding point	PALPK30DYELLOW	V1/PK30D30	30W	6.6A

Lights to suit 4.0 Amp bayonet cap BA20s lamp

Function	Stock Code	Lamp		
Runway edge	PALBA20CLEAR	V1/300	30 W	4.0A
Threshold / End	PALBA20RGMOS	V1/2	48 W	4.0A
Outer Threshold	PALBA20GREEN	V1/2	48 W	4.0A
Taxiway edge	PALBA20BLUE	V1/300	30 W	4.0A
Holding point	PALBA20YELLOW	V1/300	30 W	4.0A

Dimensions

Installed height	195 mm
Lights per carton	1 piece
Carton size	150x150x210 mm
Pack weight	0.6 kg

ALS

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