PAL LED OPTICS
FLEXIBLE EXTRUSION IP68 RGB STRIP LIGHT

PAL LED OPTICS RGB EXTRUDED IP68 STRIP LIGHT

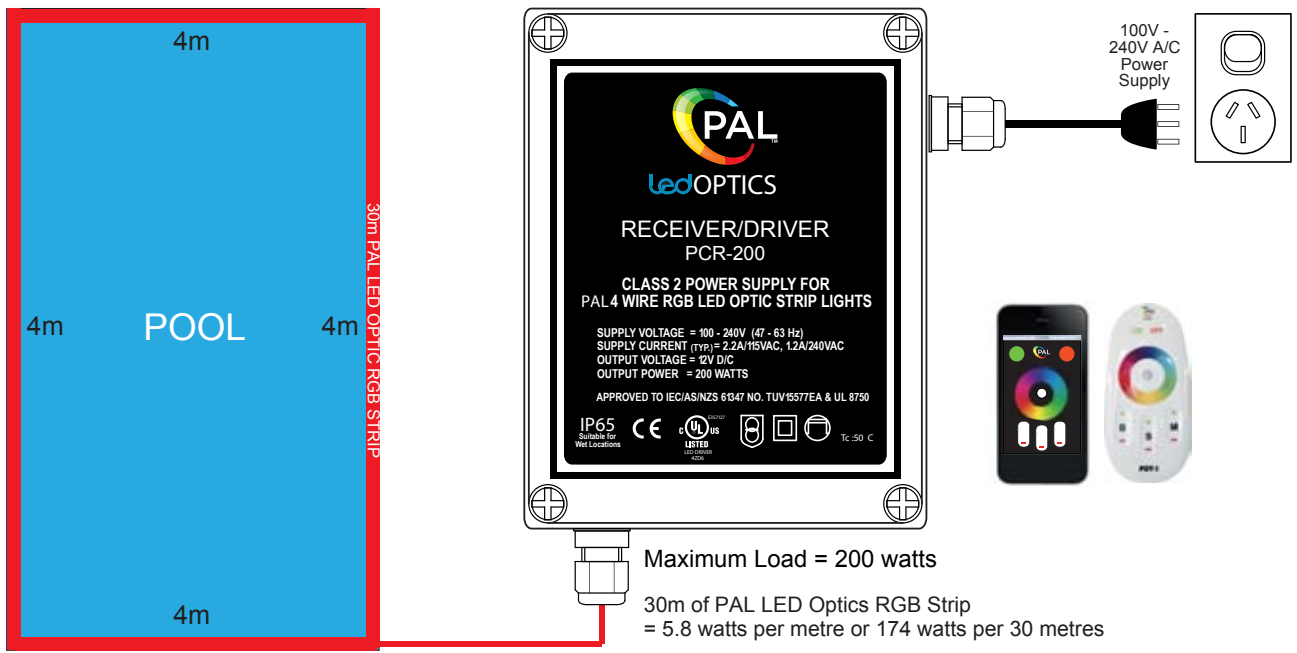| PAL LED Optic RGB Strip Light	DESCRIPTION	CODE
	20 metre Roll of PAL-LED Optic RGB Flexible Extruded IP68 Strip Light	42-PLO-P-RGB-20K
Fitted with 20m of supply cable and a wall fitting	30 metre Roll of PAL-LED Optic RGB Flexible Extruded IP68 Strip Light	42-PLO-P-RGB-30K
Flexible Extrusion	Extrusion to suit IP68 Extruded RGB Strip Light	42-PSFE-LP

NOTE: This RGB Strip Light must be powered by our PAL LED Optic PCR-200 Driver. The PCR-200 Driver can operate as a standalone system from remote or Wi-Fi or alternatively can be integrated to work in tandem with a PCR-4 PAL Touch System.

4m

4m   POOL   4m

4m

30m PAL LED OPTIC RGB STRIP

100V - 240V A/C Power Supply

RECEIVER/DRIVER PCR-200

CLASS 2 POWER SUPPLY FOR PAL 4 WIRE RGB LED OPTIC STRIP LIGHTS

SUPPLY VOLTAGE = 100 - 240V (47 - 63 Hz)
SUPPLY CURRENT (TYP.) = 2.2A/115VAC, 1.2A/240VAC
OUTPUT VOLTAGE = 12V D/C
OUTPUT POWER = 200 WATTS

APPROVED TO IEC/AS/NZS 61347 NO. TUV15577EA & UL 8750

IP65 Suitable for Wet Locations   Tc :50 C

Maximum Load = 200 watts

30m of PAL LED Optics RGB Strip = 5.8 watts per metre or 174 watts per 30 metres

PAL LED OPTICS DRIVER & PCR-4 DRIVER FOR PAL LED OPTICS STRIP LIGHT

PCR-200 DRIVER (IP65)	DESCRIPTION	CODE
All PCR-200 drivers are supplied with 1 x PCT-1 Hand Held Remote. Note 1: The PCR-200 is suitable to drive up to 30m of PAL LED Optic RGB Extruded Strip	**PCR-200 DRIVER FITTED WITH 10A SUPPLY LEAD & PLUG WITH PCT-1 HAND HELD TRANSMITTER & WI-FI READY BUT NOT FITTED**	42-PCR-200
	PCR-200 DRIVER FITTED WITH 10A SUPPLY LEAD & PLUG WITH PCT-1 HAND HELD TRANSMITTER & FITTED w/- PCW-1 WI-FI MODULE	42-PCR-200W
SPARE PCT-1 TRANSMITTER for Wireless Control	**SPARE PCT-1 HAND HELD TRANSMITTER w/- WALL HOLDER Supplied with 2x 1.5V Batteries**	42-PCT-1
SPARE WI-FI MODULE KIT for WI-FI Control from Apple IOS or Android Devices	**SPARE WI-FI MODULE KIT**	42-PCTWF1

December 2014

Installation Instructions for Pre Install of PLO-P Mounting Track into Pool Wall

1. Locate the best position to take the 20mm PVC Conduit back to the PCR-200 Driver to run the supply cable from the start of the PLO-P RGB LED Strip (NB: 20m Supply Cable connected to PLO-P)

2. At the selected location for the "PLO-P start" leave a path above the pool wall below where the coping will be laid to run the 20mm conduit from the PLO-P cable gland assembly.
To enable simple installation of the PLO-P Gland Assembly and 20mm Conduit run back to the Driver the WF-3P Wall Housing is supplied. The PLO-P Gland Assembly and 20mm Conduit will fit into the WF-3P Wall Fitting as shown in figure 2.

3. The PLO-P mounting track should be laid when the pool wall finish is completed and the pool coping is laid (apart from the coping above the location of the conduit entry to the PLO-P cable gland).

   It is suggested that a draw wire be fitted into the 20mm conduit to enable a simple installation of the PLO-P supply cable to the PCR-200 Driver.
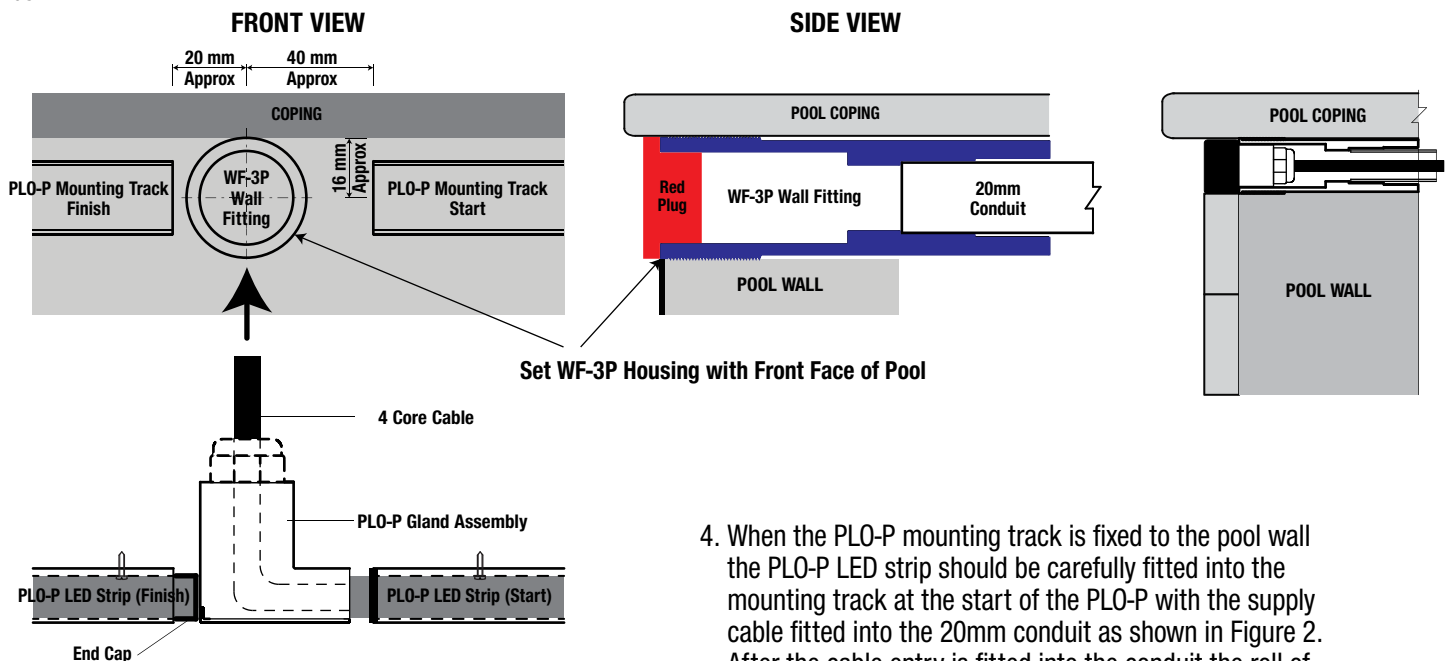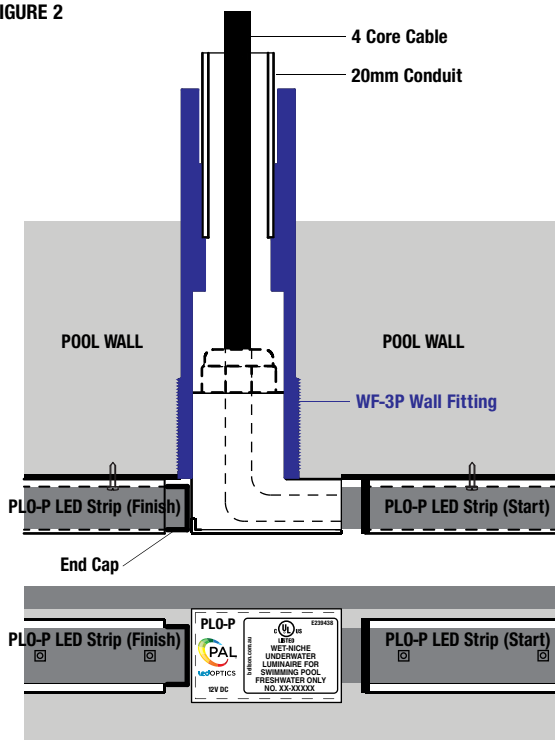
FIGURE 1

FRONT VIEW

SIDE VIEW

20 mm Approx

40 mm Approx

COPING

16 mm Approx

PLO-P Mounting Track Finish

WF-3P Wall Fitting

PLO-P Mounting Track Start

POOL COPING

Red Plug

WF-3P Wall Fitting

20mm Conduit

POOL WALL

POOL COPING

POOL WALL

Set WF-3P Housing with Front Face of Pool

4 Core Cable

PLO-P Gland Assembly

PLO-P LED Strip (Finish)

PLO-P LED Strip (Start)

End Cap

FIGURE 2

4 Core Cable

20mm Conduit

POOL WALL

POOL WALL

WF-3P Wall Fitting

PLO-P LED Strip (Finish)

PLO-P LED Strip (Start)

End Cap

PLO-P LED Strip (Finish)

PLO-P

PLO-P LED Strip (Start)

4. When the PLO-P mounting track is fixed to the pool wall the PLO-P LED strip should be carefully fitted into the mounting track at the start of the PLO-P with the supply cable fitted into the 20mm conduit as shown in Figure 2. After the cable entry is fitted into the conduit the roll of PLO-P can then be laid out and carefully clipped into the mounting track making sure the PLO-P strip is not twisted or stressed.
The mounting track can be fixed to the pool wall using good quality silicon or with the 316 mounting screw set available with the PLO-P mounting track.

5. When the PLO-P is laid into the mounting track the end (finish), the PLO-P has to be cut (**only cut the PLO-P strip at the cutting points shown with the dotted lines**).
NOTE: If the PLO-P is cut outside the cutting points it will cause a bank of 3 LED's to not illuminate.

6. After cutting the end (Finish) of the PLO-P use silicon to fit the end cap to the PLO-P then clip into the track.

7. Full installation instructions on the mounting track including fitting the track to corner and curved surfaces are provided on publication number P40-22A.

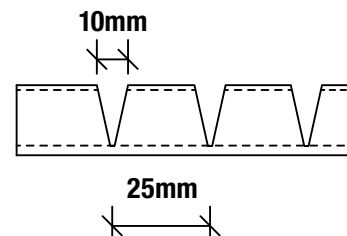December 2014

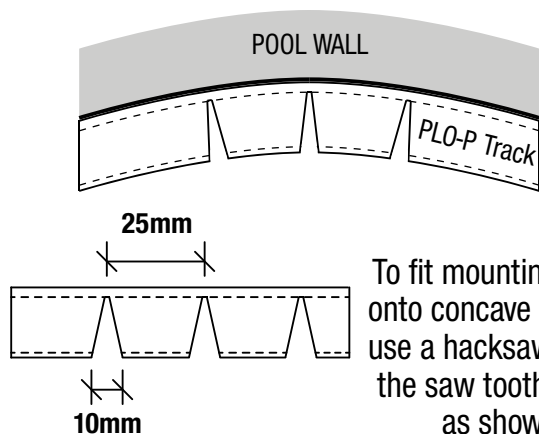# Mounting Track Details for Corners and Curved Surfaces

STRAIGHT CORNER (SIDE VIEW)

POOL WALL

40mm

40mm

PLO-P Track

PLO-P Track
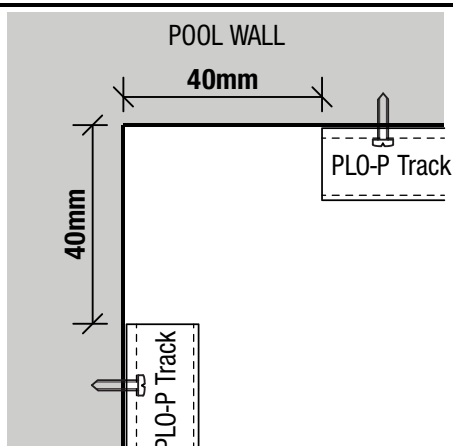
CURVED CORNER (SIDE VIEW)

POOL WALL

PLO-P Track
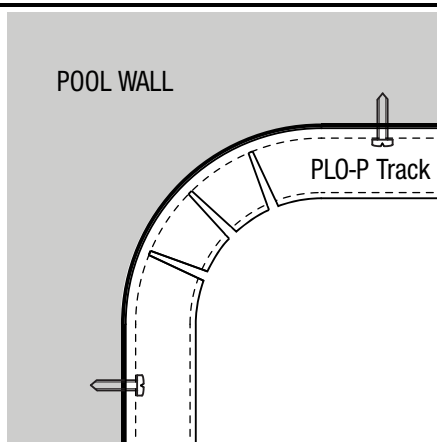
To fit mounting track into corners use a hacksaw to cut the saw tooth detail as shown

10mm

25mm

CONCAVE SURFACE (SIDE VIEW)

POOL WALL

PLO-P Track

25mm

10mm
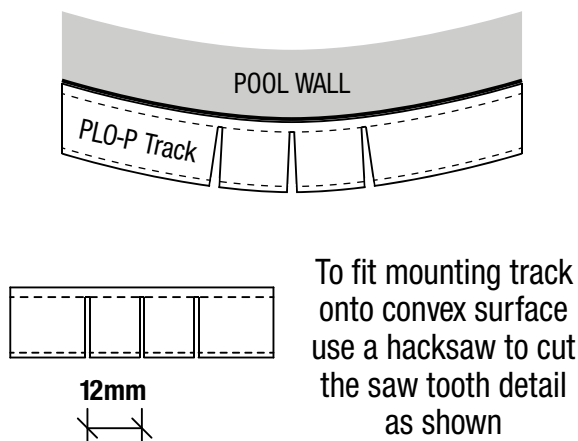
To fit mounting track onto concave surface use a hacksaw to cut the saw tooth detail as shown

CONVEX SURFACE (SIDE VIEW)

POOL WALL

PLO-P Track

12mm

To fit mounting track onto convex surface use a hacksaw to cut the saw tooth detail as shown

PAL LED OPTICS PCR-200 DRIVER

The PLO-P is powered by the PAL PCR-200 Class 2 LED Driver that is controlled with the PCT-1 Wireless transmitter or optional Smartphone App on Apple or Android Devices.

Refer to PCR-200 for Detailed Installation Instructions.

PCR-200 Driver

PAL
ledOPTICS

RECEIVER/DRIVER
PCR-200

CLASS 2 POWER SUPPLY FOR
PAL 4 WIRE RGB LED OPTIC STRIP LIGHTS

SUPPLY VOLTAGE = 100 - 240V (47 - 63 Hz)
SUPPLY CURRENT (TYP.) = 2.2A/115VAC, 1.2A/240VAC
OUTPUT VOLTAGE = 12V D/C
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APPROVED TO IEC/AS/NZS 61347 & UL 8750

IP65
Suitable for
Wet Locations

Tc :50°C

PCT-1 Transmitter

Refer to PCT-1 Information Sheet for Full Operation Details & Features

PCT App

Refer to Wi-Fi Information Sheet for Full Operation Details & Features

Publication No. P40-22A

INSTALLATION INSTRUCTIONS ON THE PAL LED OPTICS PLO-P RGB PERIMETER STRIP LIGHT CONTROLLED BY PAL COLOUR TOUCH WIRELESS REMOTE SYSTEM

FEATURES

- ◉ Easy to Install

- ◉ Can be used in new or existing installations

- ◉ Aquatic - Can operate in or out of water

- ◉ All Moulded Construction

- ◉ Approved to IEC/AS/NZ 61347

- ◉ Long Life LED Construction

- ◉ Almost unlimited Colour Selection with just a Touch

PAL LED Optics | Perimeter

RGB LED Light System with Touch Control to provide Perimeter Pool Lighting.

FEATURES:

Approved to IEC/AS/NZ

RF Control

Wi-Fi Control– apps available

Colour touch & switch modes available

PAL System Link

Cuttable

IP68 Flexible Extrusion

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PAL LED Optics | Perimeter

Colour Control
Control colour, speed, brightness and modes

Wireless Touch
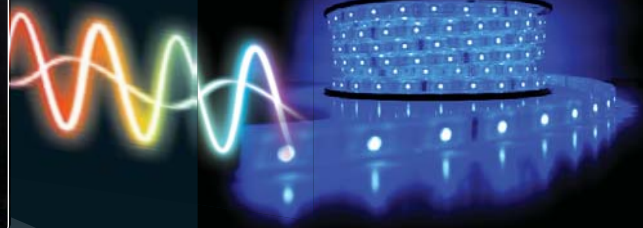Wi-Fi tablets and smartphones

Colour Touch Technology

Memory Recall
Remembers last colour, speed and brightness

Auto Sync
Automatic sync of your PAL lights every time

| APPLE OR ANDROID DEVICES	RF HANDSET	RECEIVER/DRIVER	PLO-RGB	ACCESSORIES
Operating dist: 50 - 70metres	Part No: PCT-1 Operating dist: 50 - 70metres	Part No: PCR-200 200watts / 12volts DC Wi-Fi and RF Approved to IEC/AS/NZ	Part No: PLO-RGB 5 watts per metre 12V DC 50,000 hours	Mounting Extrusion

System Link
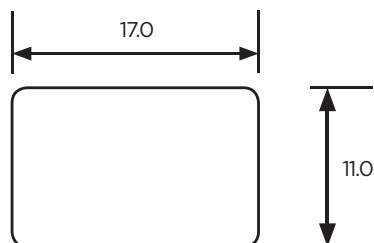Allows you to link multiple systems for home and pool automation

MOUNTING EXTRUSION
19.5
14.5
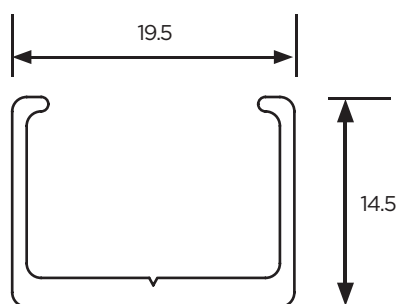
LED EXTRUSION
17.0
11.0

PAL LED Optics Perimeter ACCESSORIES PART NUMBERS

Description	Code
PAL LED OPTICS RGB EXTRUDED IP68 STRIP LIGHT	
30 metre roll of PAL-LED Optic RGB flexible extruded IP68 strip Light fitted with 20m of supply cable and a wall fitting	42-PLO-P-RGB
Extrusion to suit IP68 Extruded RGB Strip Light	42-PSFE-LP
PAL LED OPTICS PCR-200 DRIVER FOR PAL LED OPTICS STRIP LIGHT	
PCR-200 Receiver/Driver class 2 power supply with PCT-1 hand held transmitter, wall holder & Wi-Fi ready but not fitted	42-PCR-200
PCR-200 Receiver/Driver class 2 power supply with PCT-1 hand held transmitter, wall holder & fitted with PCW-1 Wi-Fi module	42-PCR-200W
Spare PCT-1 hand held transmitter w/- wall holder Supplied with 2x 1.5V Batteries	42-PCT-1
Spare Wi-Fi module kit	42-PCTWF1

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