



774 Series

LED StepLight

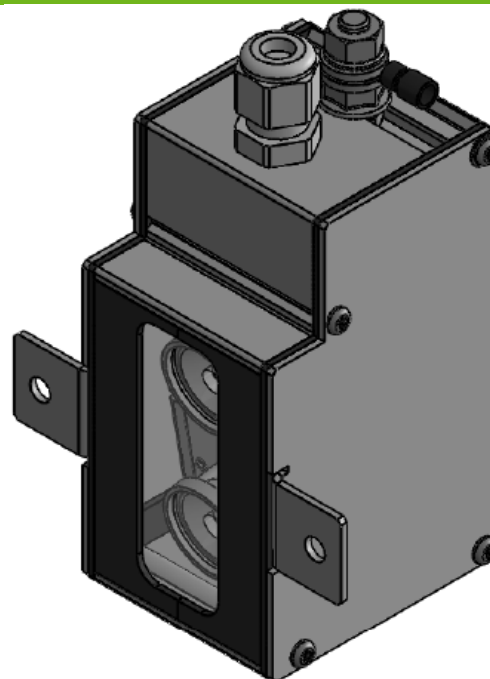


*Long Life Reliability
does not cost the earth*

LPA-EXCIL ELECTRONICS

Feature Summary

- High reliability LED technology.
- LED life expectancy greater than 100,000hrs to 70% of initial light output.
- Ultra-high reliability design.
- Zero maintenance costs.
- Illumination levels exceed industry requirements.
- Offers energy savings compared to conventional light sources.
- Integrated power supply for direct connection to vehicle supply.



Product Codes

774 Product Range Standard Features		
Product Code	Supply Voltage	Connection
774129	72/110VDC	4 Way Deutsch
774138	24/28VDC	4 Way Deutsch



Input Specification

Product Code	774130	774138
Input Voltage Range	16.8-35VDC	50-140VDC
Input Voltage Limit Without Damage	40VDC	154VDC
Input Current at nominal supply	0.11/0.9A	0.036/0.025A
Power Converter Efficiency	93%	87%

Output Specification

Part Number	LED Colour Classification	Colour Temperature Range	LED Manufacturer	Intensity Bin	Source Luminous Flux lm/W	Total Luminous Flux lm
774130	Cool White	5000k-5750k	Seoul Semiconductor	U1	100	200
774138	Cool White	5000k-5750k	Seoul Semiconductor	U1	100	200

Beam Angle = 9.6° (Unit Mounted Vertically)
 LED = 2 X Seoul P4
 Secondary Optics = ±6.5° half angle, 10cd/lm lens factor

Typical Illumination:

Unit mounted vertically at height = 137mm, Step Width = 1.61m
 Approximate Illumination at Step Centre = 501lux

Other Colours, Intensities and Secondary Optic Beam Angles are available.
 Please contact LPA-Excil for details.

Environmental Specification

All Variants		
Shock and Vibration	EN50155 & EN61373	
Operating Temperature Range	-25 to +55	°C
Weight	250g	kg
Lumen Maintenance (LED Life to 70% of the initial light output)	>100,000	Hrs
MTBF Ground Mobile 40°C	927,000 (72/110VDC) 2,250,000 (24/28VDC)	Hrs



Compliance

The 774 Series Steplight complies with the following standards:

- EN61373 Rolling stock equipment. Shock and vibration.
- EN50121-3-2 Rolling stock equipment. Electromagnetic compatibility.
- EN50155 Electronic equipment used on rolling stock.

Safety Specification

The 774 Series Steplight is equipped with the following protection circuitry as standard:

- Reverse Polarity protection.
- Input transient protection.

Electrical Interface

The 774 Series Steplight has a 300mm flying lead fitted with a 4 Way Deutsch DT DT06 Plug.

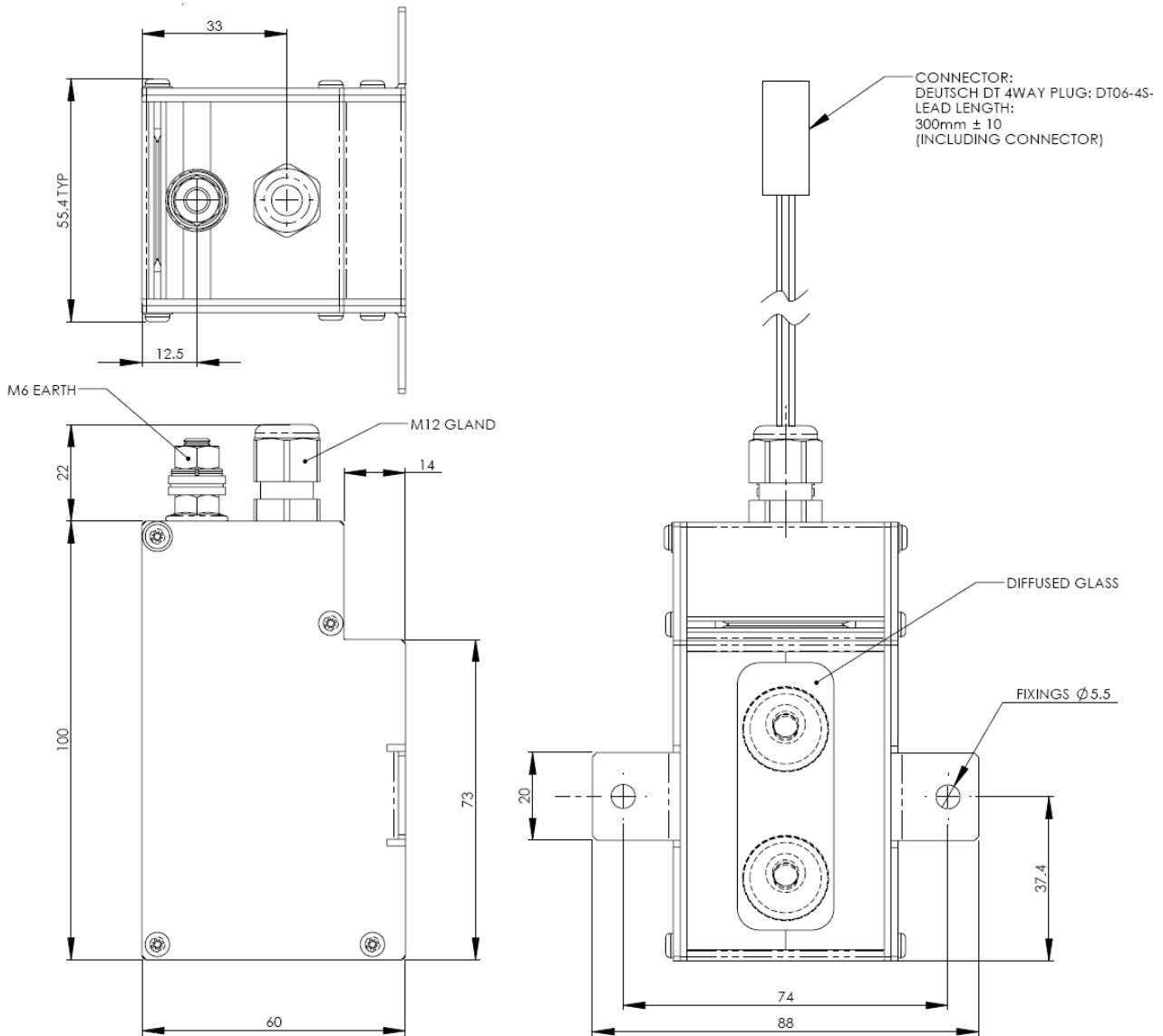
Pin-Out	Pin 1 =	+Ve
	Pin 2 =	0V
	Pin 3 =	+Ve
	Pin 4 =	Not Connected

Note: Pin 1 & 3 can be used for LOOP-IN/LOOP-OUT and are connected together internally

Other Interface options are available. Contact LPA-Excil for details

Mechanical Specification

All Dimensions in mm unless stated otherwise



LPA-Excil makes every effort to ensure the accuracy of the information contained within this datasheet. However we reserve the right to withdraw and re-issue this datasheet at a later date.

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