

645 Pedestrian Detector

UMS Charge Code Submission

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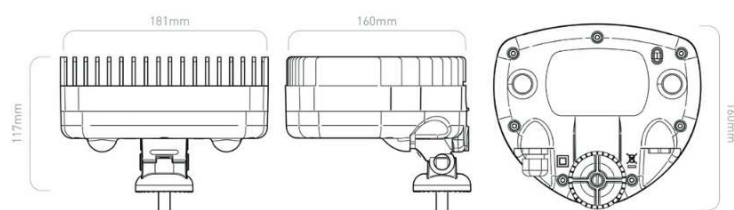
1. INTRODUCTION

1.1 Document Scope

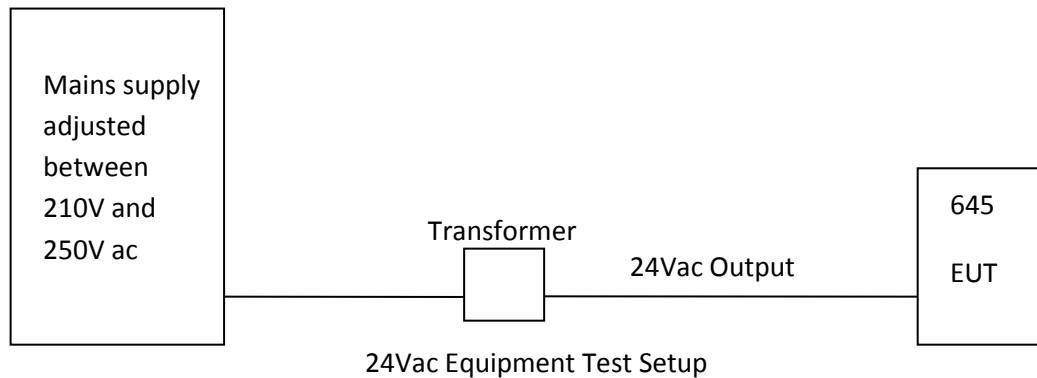
This document provides data in support of the application for an UMS charge code as detailed in the ELEXON guidance document.

2. Product Overview

Description	Pedestrian Detector
Technology	AGD 3D HD Optical Stereo Vision
Max Zone	5m x 3m or greater with multiple-units
Power	14W@ 24V AC
Detect Output	Single Opto/IP
Real-time Video	Yes
Volumetrics	
Housing Material	Black Polycarbonate/aluminium
Sealing	IP65
Operating Temp	-20° to +60° C
Configuration	WiFi AGD Touch-setup
Lux Level	Ambient lighting to min 15 lux
Dimensions	W 181mm x D 160mm X H 117mm
Weight	1.40kgs
Testing	Full test cycle - AGD Certified
Patent No.	GB 2448617



3. Test Setup



4. Test Results

4.1 Summary at 240V

The following results summarise the data from 5 sample 645 product tested by a UKAS accredited test house, Element Materials Technology https://www.ukas.com/wp-content/uploads/schedule_uploads/00011/00295/0178Product%20Certification.pdf

Note: the results shown above have been entered into the 'Template for Standard Charge Code and Test Data' spreadsheet provided on the ELEXON web site (and it is pre configured for 240V rather than 230V).

Circuit Watts at 240V	14.20	13.10	13.90	13.40	14.70
VA at 240V	55.47	56.00	55.24	55.23	55.71
	Calculated Value	Rounded to whole number (except p.f. which is to 2 d.p.)			
Average Watts	13.86	14			
Average VA	55.53	56			
VAr	53.77166961	54			
pf	0.249598409	0.25			

4.2 Full Test Results

The following results were obtained from the 5 samples submitted for test.

A comprehensive set of test results can be found in the test report 'AGD 645 Results.pdf' submitted with this document.

Voltage		Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	Watts	12.2	11.4	11.9	11.3	12.4
	VA	29.63	29.21	29.63	29.42	30.05
220	Watts	12.9	11.9	12.5	11.9	13
	VA	36.54	36.11	36.32	36.1	36.76
230	Watts	13.2	12.5	13.1	12.5	13.8
	VA	44.88	44.42	44.65	44.65	45.11
240	Watts	14.2	13.1	13.9	13.4	14.7
	VA	55.47	56	55.24	55.23	55.71
250	Watts	14.9	13.7	14.6	14.2	15.6
	VA	68.54	67.79	68.29	68.29	68.79