ALDRIDGE

iCell RU450 & LCU200

Photocell Lamp Controllers

iCell RU450

Wireless Lamp Controller RU450

The Aldridge iCell range of Intelligent Street Lighting photocells, reduces energy costs up to 35% through intelligent on/off switching, targeted progressive dimming and efficient management of the energy consumption.

The Aldridge iCell RU450 20/20 LUX Photocell is manufactured to ANSI C136.10 standards. The photo sensor detects the ambient light level which converts to electronic signals to control the equipment via the Pin I/O on the bottom.

Using the NEMA twist lock pin mechanism to lock the iCell in place, the iCell is secured and stable and there is no movement once in place.

With state-of-the-art technology there are no moving parts within the iCell RU450 as all electronics are solid state, enclosed within a UV stabilized housing.

Product Specifications

- **Standard:** ANSI C136.10, BS5972:1980
- **NEMA:** 3/5 or 7 Pin twist lock interface for easy installation
- **Voltage Rate:** 240VAC
- **On Light Level:** 100 LUX
- **Off Light Level:** 50 LUX
- **Operating Temperature:** -40° C to + 70°C
- **Detection Time:** <60 Secs
- **Power Consumption:** <0.25 Watt
- **Lifetime:** >5000 cycles
- **Housing:** UV Stabilised Polycarbonate
- **Failure Mode:** Fail ON
- **IP Rating:** IP65/IP67
- **Load Rating**: 50/60Hz

CODE	Voltage (V)	Tungsten (W)	Ballast (VA)
135D1	120	1000	1800
135D2	240	2000	1800

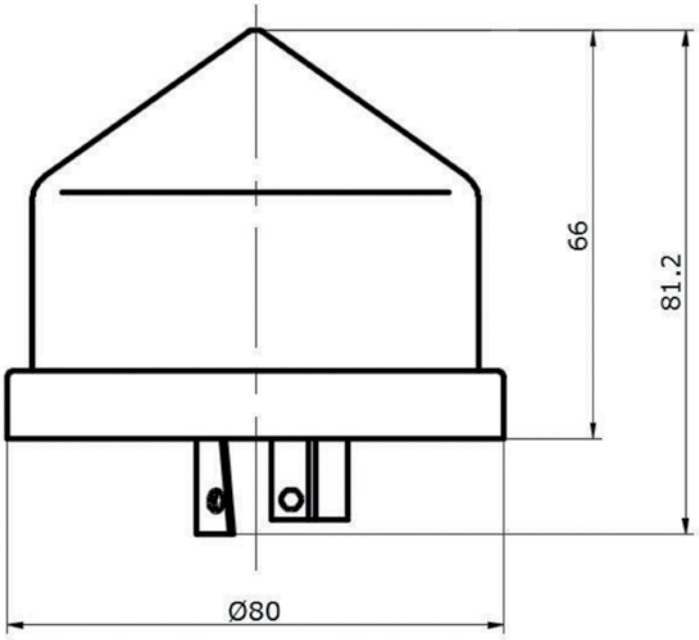
Applications

- Single Lamp, LED Drive Power
- Tunnel Lighting, Street Lighting, Landscape Lighting

iCell RU450

Wireless Lamp Controller RU450

Product Dimensions



iCell RU450W

Wired Lamp Controller RU450W

The Aldridge iCell range of Intelligent Street Lighting photocells, reduces energy costs up to 35% through intelligent on/off switching, targeted progressive dimming and efficient management of the energy consumption.

The Aldridge iCell RU450W Photocell is manufactured to ANSI C136.10 standards. The photo sensor detects the ambient light level which converts to electronic signals to control the equipment.

With state-of-the-art technology there are no moving parts within the iCell RU450 as all electronics are solid state, enclosed within a UV stabilized housing.

Product Specifications

- **Standard:** ANSI C136.10, BS5972:80
- **Electronic:** Wired
- **Voltage Rate:** 120 VAC (110V, 127V), 240 VAC (220V, 230V)
- **Operating Temperature:** -40° C to + 70°C
- **Detection Time:** 3-15 Secs
- **Power Consumption:** <0.25 Watt
- **Lifetime:** >5000 cycles
- **Housing:** UV Stabilised Polycarbonate
- **Failure Mode:** Fail ON
- **IP Rating:** IP65/IP67
- **Load Rating**: 50/60Hz
- **Fixing Bracket**

CODE	Voltage (V)	Tungsten (W)	Ballast (VA)
135WD1	120	1000	1800
135WD2	240	2000	1800

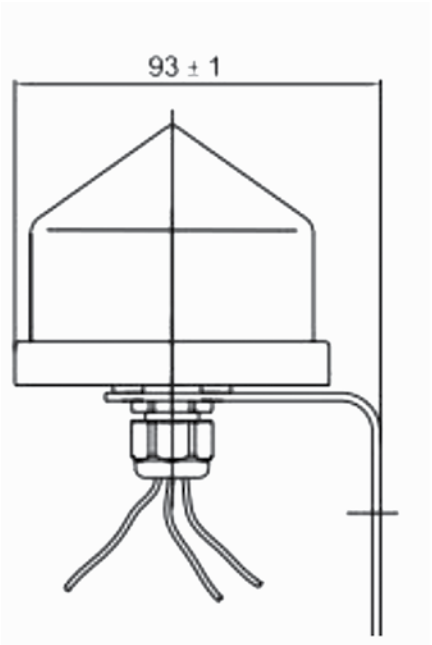
Applications

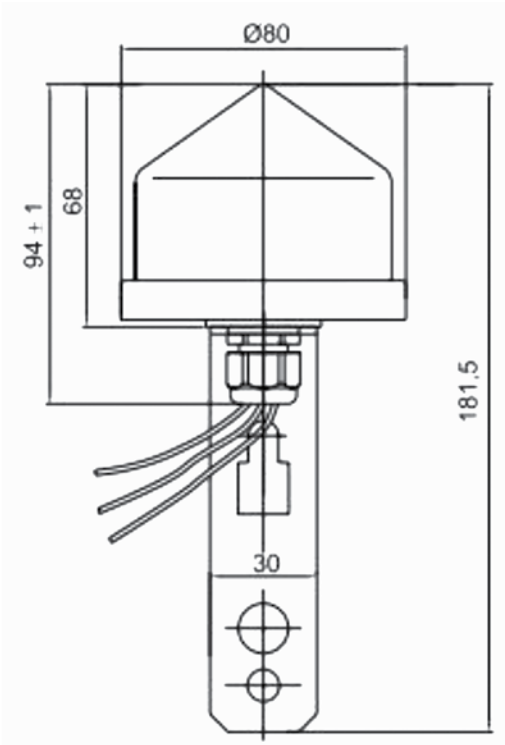
- Single Lamp, LED Drive Power
- Tunnel Lighting, Street Lighting, Landscape Lighting

iCell RU450W

Wired Lamp Controller RU450W 360°

Product Dimensions





iCell LCU200

Wireless Lamp Controller

Intelligent Street Lighting reduces energy costs up to 35% through intelligent on/off switching, targeted progressive dimming and efficient management of the consumption.

Product Description

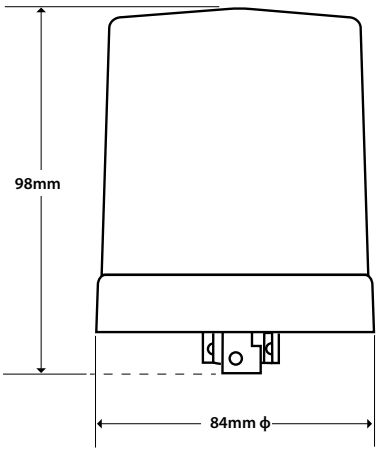
- Zigbee communication, auto-Mesh
- Standard 5 lines NEMA interface for easy installation
- Remote switch on/off, maximum internal 16A relay outputs
- Dimming interface: 0-10V (PWM can be customized)
- Remote reading functions current, voltage, power, power factor, electric energy
- LED lamp failure detection function
- Fault reporting functions
- Lightning protection function
- Off-line task function
- IP65

Available Options

- Built-in GPS
- Built-in photocell
- Built-in tilt sensor

Application

- Single Lamp, LED Drive Power
- Tunnel Lighting, Street Lighting, Landscape Lighting



zigbee

iCell LCU200 Technical Specifications

PARAMETER	VALUE	
RELAY PARAMETER		1 Route, 250V/16A
AC Input Parameter	Voltage Range	96V - 264VAC
	Frequency Range	50 - 60Hz
	Current Range	0 - 2A
	Static Power Consumption	<2W
AC Output Parameter	Voltage Range	AC Input Voltage
	Frequency Range	50 - 60Hz
	Current Range	0 - 2A
	Maximum Load Power	≤500W
DATA READ INSTRUCTIONS		
Voltage Detection Range	96V - 264V AC	
Current Detection Range	0 - 2A	
Data Detection Accuracy	≤3%	
Active Statistics	Yes	
Power Factor Calculated	Yes	
Energy Statistics	Power Accumulated Daily	
DIMMING MODE		
Dimming Mode	PWM (can be customized)	Analog Voltage
Output Parameters	5V, 400Hz	0 -10V/10mA
Explanation	Preset 100% Dimming of PWM = 1 or PWM = 0	Preset 100% Dimming for 10V, or 0V Output
OTHER FUNCTIONS		
Fault Information Reporting	Initiative and Enquiry Report	
Lamp Failure Information	Lamp Failure	
COMMUNICATION PERFORMANCE		
Communication Mode	RF	
Route Pattern	MESH	
Communication Distance	200M (Visual Range)	
Frequency	915MHz	
Frequency Range	902MHz - 928MHz	
Frequency Channel Quantity	10 Channels	
Communication Rate	250Kbps	
BASIC OPERATING ENVIRONMENT		
Temperature	-40°C +85°C	
Relative Humidity	<95%	
IP Rating	IP65	
Dimensions	Diameter 84mm, Height 98mm	
Weight	242g	
OTHER OPTIONS AVAILABLE		
Built-in GPS		
Built-in photocell		
Built-in tilt sensor		

ALDRIDGE

ALDRIDGE Traffic Systems

Units D3+D5
Southglade Business Park, Nottingham NG5 9RA

www.trafficltd.com.au

NSW
P: +61 2 9736 3677
F: +61 2 9736 3391
e: info@trafficltd.com.au

NT
P: +61 8 8947 0733
F: +61 8 8947 0713
e: info@trafficltd.com.au

QLD
P: +61 7 3184 2000
F: +61 7 3266 2244
e: info@trafficltd.com.au

VIC
P: +61 3 9430 0222
F: +61 3 9430 0244
e: info@trafficltd.com.au

ACT
P: +61 2 6299 7922
F: +61 2 6299 7977
e: info@trafficltd.com.au

TAS
P: +61 3 6273 1177
F: +61 3 6273 1759
e: info@trafficltd.com.au

SA
P: +61 8 8362 2385

e: info@trafficltd.com.au

WA
P: +61 8 9248 1002
F: +61 8 9209 2288
e: info@trafficltd.com.au

UNITED KINGDOM
P: +44 (0) 1159 223 797
F: +44 (0) 1159 223 836
e: info@aldridgetraffic.co.uk

ISO 9001 Quality management system
ISO 45001 OH&S management system
ISO 14001 Environmental management system
NATA ACCREDITATION Nº. 10378

ZHAGA Associate Member

24/10/22 Ref: TST iCellR450_v.2