



## ALR EXTENDED LIFE PHOTOCONTROL D2

### KEY FEATURES

- Premium utility grade control
- High reliability, long life
- High-temp housing and components
- 320 Joule MOV standard
- Extremely reliable versatile design applications

TE Connectivity's advanced technology Extended Life D2 Series Photocontrol provides a unique mix of low-cost, long-life, and small form factor for demanding Roadway and Specialty Lighting applications.

TE has developed a new EL (Extended Life) - series as part of the D2 offering, providing greater benefits and improved performance over the original model.

It utilises advances in ultra-low power microcontroller technology to halve power consumption from our original model while increasing load switching capability (including loads with phase correction capacitors). It also incorporates a 320J MOV for enhanced protection of the luminaire from line transients. This level of protection has only previously been available in the larger NEMA photo cells.

The new D2 photo cell improves on the performance of the original model by incorporating a heavy-duty relay manufactured by TE. This relay is assisted by a triac that eliminates contact welding when driving large luminaires with PFC capacitors. The triac conducts at the line zero-crossing point during lamp turn-on, charging any load capacitance before the relay contacts close. This also reduces sags and surges on the network caused by the luminaire switching.

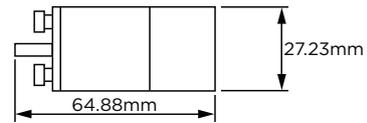
**Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.**

## ALR EXTENDED LIFE PHOTOCONTROL



The new D2 photo cell from TE retains everything you liked about the original model while offering greater load current capacity, half the power consumption, and enhanced line transient protection.

D2 Series Photocontrols are designed to meet AS/NZS 1158.6 and ANSI C136.10, where applicable.



### FEATURES

Rated Volts	185 – 305 VAC
Frequency	50 Hz
Operating Light Levels	Standard 10 lux ON (Optional 10-35 lux)
Time Delay ON/OFF	Instant ON 2-5 Second Delay OFF
OFF/ON Ratio	1.5 : 1    2 : 1    0.6 : 1 (Inverse Ratio)
Fail Mode	ON
Surge Protection	320 Joules
Rated Life	20 years

### SPECIFICATIONS

Physical	Dimensions: 27.23 mm dia. x 64.88 mm high ( including contacts) Enclosure: UV stabilised Polypropylene Cover and Hi-Temperature Polyester (PBT) Base
Temperature	Power consumption: less than 0.5 watt
Control	Minus 40°C to plus 65°C @ 96% RH
Relay Rating	Intelligent electromagnetic switch exceeds 20,000 ON/OFF operations 16A
Load Rating	700 Watt Tungsten, 700 VA Ballast
Light Sensor	Non-Drifting Phototransistor

### HOW TO SPECIFY

The D2 Series provides many options ensuring your lighting network needs will be met

## D2 A - E 2 2 1

#### SERIES (FAIL MODE)

D2 = D2 (ON)

#### MARKET

A = ANZ  
J = Japan

#### CIRCUIT CONFIGURATION

E = Extended Life

#### ON TIME DELAY

I = Instant  
F = 2.5 Seconds  
T = Customer Defined Delay\*

#### OFF/ON RATIO

1 = 1.5:1  
2 = 2:1  
3 = 0.6:1

#### TURN-ON LIGHT LEVEL

1 = 10 lux      4 = 25 lux  
2 = 15 lux      5 = 30 lux  
3 = 20 lux      6 = 35 lux

\*For Customer Defined Delay, there is a 60 second test mode on start up where it will be Instant ON/OFF. Once test mode is complete, the unit will function according to the specified ON/OFF Time Delay's. This will assist field staff in testing the functionality during installation.

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ALR Extended Life Photocontrol (D2)

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