



# Q18 Hazardous Area Photocell

## The Q18 hazardous area photocell is specifically designed to achieve photoelectronic control of lighting situated within designated hazardous areas.

The enclosure for the photocell is manufactured from cast aluminium, machined to ensure flame paths are correct and has Ex d ATEX approval for application in hazardous area zones 1 & 2 (EX II 2 G, Ex d IIC T6 to T4).

Photo-electronic lighting control is provided by a Microstar Ultra-HT photocell, which combines a high level of switching accuracy and low power consumption with a long service life, for optimum performance even in such adverse environments.



### **Key Features**

- Very low power consumption
- Filtered silicon photodiode
- Microprocessor based photo-electronic control
- Accurate switching
- 'Zero crossover voltage' switching
- Suitable for use with LED, halogen or discharge lighting

#### Applications

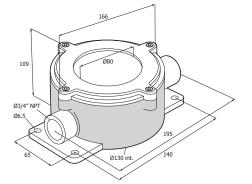
- Industrial hazardous area lighting
- Security lighting
- High bay lighting
- Floodlighting

## Q18 Hazardous Area Photocell

## Technical Specification

Specification	Description
Sensor type	Filtered silicon photodiode
Sensor control	Microprocessor
Standard switching level	70 lux 'On', 35 lux 'Off'. Alternative settings can be factory pre-programmed on request
Switching differential	1:0.5
Operating voltage range	220-270 Vac, 50/60 Hz
Maximum lamp load	3 x 400 W inductive (96 µF), 10 A
Power consumption	< 0.25 W
Operating temperature range	-40 °C to +80 °C (photocell)
ATEX protection	EX II 2 G, Ex d IIC T6 to T4 (enclosure)
Alternative switching levels	Factory pre-programmable to meet customer requirements
Options	Positive switching differential, with optional switching levels pre-programmable to suit customer requirements Lead lengths to suit application
Approvals (photocell)	RoHS compliant. CE marked and compliant with EMC emission and immunity standards Designed to meet the requirements for UMSUG code 95 0000 0000 100
Approvals (enclosure)	Compliant with EN 60079-0, EN 60079-1. EX II 2 G, Ex d IIC T6 to T4. Marine grade aluminium to EN 1706 AC, 43100KF, AISI 10Mg
Dimensions L x W x D	195 x 130 x 109 mm (enclosure)

For product order codes or to discuss project requirements, please contact Thomas & Betts or your local representative.





Royce Thompson is the leading photo-electronic lighting controls brand from Thomas & Betts, supporting the street and amenity lighting industry since 1963.

Continuous focus on the provision of high quality, innovative products to the market ensures Royce Thompson photocells offer the best in low energy consumption, reliability and long life - helping you, the customer, achieve optimum performance whilst keeping your carbon footprint to a minimum.

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### **Product selection**

Product	Q18
Description	Hazardous area photocell

Individual product order codes subject to final product specification. Codes can be supplied on request from Thomas & Betts. To discuss project requirements, please contact your local representative or Thomas & Betts on (0)113 281 0600.

Warranty of all Royce Thompson products is subject to the standard Thomas & Betts terms & conditions of sale.



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