

PRODUCT DATA SHEET

Quantum Miniature LED Series - Adjustable LED Display Spotlight

Model/s:	Q262	Q362	Q462	Q562	Q272	Q372	Q472	Q572
Attachments: FF – Face Fix RF – Rear Fix CP - Ceiling Plate SF – Surface Fix	FF	RF	CP	SF	FF	RF	CP	SF
Configuration:	Single Fix							
Watts (W):	1.5W				4.5W (3 x 1.5W)			
Supply Current:	350mA DC J							
Power Factor (Pf):	>0.9							
Forward Voltage (Vf):	3.2V				9.6V			
Beam Angle:	45°							
Ambient Temp (T ^a) Max:	-20°C to +40°C							
Dimming:	1 – 10V							
Looping In:	Suitable							
Working Temp (T ^c) Max:	50°C							
LED Colour Appearance:	CW Cool White (6200K) CRI >80 NW Neutral White (4200K) CRI >80 WW Warm White (3200K) CRI >80							
Safety Class:	III (SELV)							
Finishes:	01 White 02 Black 03 Chrome 04 Brass 05 Brushed Chrome 06 Antique Brass 07 Polished Nickel 08 Brushed Nickel 09 Silver							
Safety Standards:	BS EN 60598-1:2008 Luminaires – General Requirements & Tests (PENDING)							



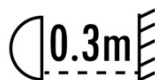
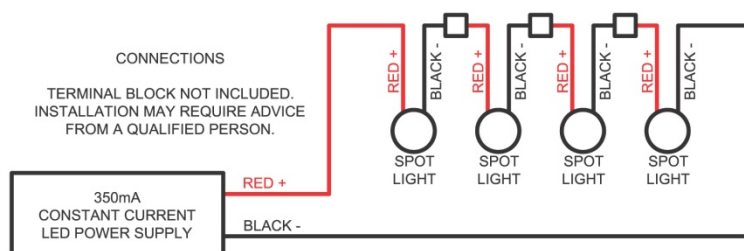
Please retain this data sheet for WEEE Recycling. Environment Agency Producer Registration Number: WEE/GB0292UQ

Electrical & electronic equipment should never be disposed of with general household waste but must be separately collected for their proper treatment and recovery. The crossed out wheeled bin symbol shown on this data sheet reminds you of the need to dispose of the product correctly at the end of its life. In this way you will assist in the recovery, recycling and reuse of many of the materials used in this product. At the end of the life of your product please contact the WeeeCare helpline quoting the account number shown above to arrange for a free no obligation collection. If the new Display Lighting Ltd product is replacing a product that has fulfilled the same function we will accept the return of the end of life product. Where possible recycle your packaging. With your help it is possible to reduce the amount of electrical and electronic waste ending up in landfill and to improve quality of life by preventing the release of potentially hazardous substances into the environment.

Recommended Power Supplies

Model:	LED/350-6.L	LED/350-12.L	LED/350-18.L	L05011i2
Wattage (Max):	6W	12W	18W	20W
Output Current:	350mA	350mA	350mA	Adjustable
Dimming:	No	No	No	1-10V
Input Voltage:	120V - 240V	120V - 240V	220V - 240V	180V - 240V

Connection Diagram:



RoHS

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Installation:

1. Each luminaire is supplied with Red (+) & Black (-) tails for connection to a suitably prepared power supply.
2. Terminal block not included, installation may require advice from a qualified person. Terminal blocks must conform to EN 60998-2-1 or EN 60998-2-2:
 - Type of terminals: Screw
 - No of terminals: 2
 - Conductor Size: 0.5 – 2.5mm
 - Rated Voltage: >48V
 - Strip Length: 6mm
3. Use only parts that belong to the product otherwise the installation might not be sufficiently safe.
4. Switch off the mains supply or disconnect the tails before carrying out any works.
5. Use only IEC approved wire for input/output connections. Minimum size 18 AWG (0.75mm²)
6. If the cable becomes damaged or detached it should only be replaced by the manufacturer or appointed service agent.
7. The life of LEDs is significantly reduced when operated at high temperatures. Display Lighting strongly recommends that Quantum LED luminaires are only installed into display furniture that is well ventilated. LED products operated in unventilated furniture will not be covered by standard or extended warranty.

Notice to the Installer: If you do not install the complete system with power supply you are considered a “manufacturer” by the low voltage directive, in this case you are required to ensure the conformity of the whole system.

Operation:

As part of ongoing product improvement Display Lighting reserves the right to change the specifications, design and technical details of luminaires without prior notice. Do not copy or reproduce without the express permission of Display Lighting Ltd.

Use as directed - the products serve exclusively lighting purposes and must:

1. only be used in dry conditions, i.e. not in damp or dirt-endangered rooms or in areas of high humidity.
2. not be exposed to strong mechanical loads or to strong contamination.
3. only be installed and operated if the condition of the product has been inspected and not found to be dirty or moistened through storage.
4. only be installed by a qualified electrician who is familiar with the valid directives and wired in accordance the wiring diagram overleaf and the power supply.
5. only be operated using a suitable LED Power Supply supplied exclusively by Display Lighting Ltd.
6. be disconnected from the power before performing any cleaning or maintenance and carrying out any works on the product or its components.
7. only be operated if the product is working correctly, switch the product off immediately if a fault is detected i.e. accidental damage occurs, overheating is apparent or the product operates intermittently. To avoid failure or risk make sure the product is only operated in applications with free air circulation. Do not hang or fasten anything to or on the product especially decorations or other electrically conductive products.

Fixing Instructions (Ensure that the products are mounted on a stable, even and fixed background.)

Rear Fix (RF)	1. Remove M10 Nut & Washer from the all-thread tube. 2. Determine the place to be installed, mark the hole and drill an 11mm hole. 3. Pass the red and black tails through the hole and push the threaded tube down until the base sits flush with the mounting surface. 4. Thread the M10 washer and nut over the tails and secure the base in position. 5. Connect the positive and negative wires to a suitably prepared 12V Power Supply in accordance with the diagram shown overleaf.
Front Fix (FF)	1. Determine the place to be installed, mark the hole and drill a 7mm hole. 2. Unscrew the hidden fixing bezel from the base and secure over the centre of the hole using screws suitable for the fixing surface. 3. Remove the base from the tube by unscrewing the M4 grub screw and screw over the fixing bezel. 4. Pass the positive and negative wires through the centre of the base, bezel and drilled hole. 5. Push the tube into the base and secure in place by tightening the M4 grub screw until tight. 6. Connect the positive and negative wires to a suitably prepared 12V Power Supply in accordance with the diagram shown overleaf.
Ceiling Plate (CP)	1. Remove the mounting bracket from the ceiling plate by removing the screws. 2. Determine the place of installation and mark the holes to be drilled. 3. Fasten the mounting bracket onto the mounting surface using screws suitable for the fixing surface. 4. Connect the positive and negative tails to a suitably prepared 12V Power Supply in accordance with the diagram shown overleaf. 5. Fix the ceiling plate to the mounting bracket using the screws.
Surface Fixing (SF)	1. Determine the place to be installed, mark the hole and drill a 14mm hole. 2. Pass the red & black tails through the centre of the surface fix plate and drilled hole. 3. Fix the surface fix plate in the centre of the pre-drilled hole using screws suitable for the fixing surface (not supplied). 4. Connect the positive and negative tails to a suitably prepared 12V Power Supply in accordance with the diagram shown overleaf.

Warranty:

12 Months extended to 36 Months upon completion and return of “[LED Products Extended Warranty Form](#)” available from the Display Lighting website (see customer forms).

The integral Light Emitting Diodes (LEDs) in Quantum LED luminaires have a life expectancy in excess of 30'000 hours. Towards the end of their life the LEDs may begin to appear dimmer, at this point the luminaire must be replaced by the manufacturer or appointed service agent.

PLEASE RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE

ISO9001: DOC110