

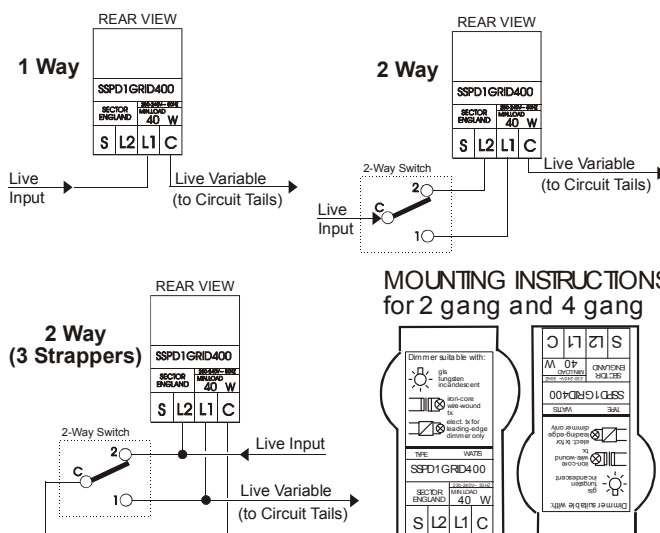
**Soft-Start and  
Over Temperature  
Cut-off**

Sector GRID  
36-055 04/05

# SECTOR

Senate House  
Southgate Road  
Potters Bar, EN6 5DS

## GENERAL WIRING DIARAMS:



## GRID DIMMER SWITCH INSTRUCTIONS

Sector dimmer switches are designed to control single or groups of electric lamps. The maximum and minimum ratings specified on the rear of the dimmer must be observed, as well as the total wattage allowed per plate, otherwise the dimmer may be damaged, invalidating the guarantee.

Dimmer compatibility is essential prior to connecting any form of lamp load. The grid dimmer is specified for the following:

**Tungsten/Resistive/Incandescent/Low voltage (LV) lamps:**  
SSPD1GRID400 will dim a maximum of 400Watts/400Va LV  
SSPD1GRID600 will dim a maximum of 600Watts/600Va LV  
**For LV lamps see: Dimming of Low Voltage Lighting.**

These dimmers are designed to be interchangeable with most on/off switches, fit British Standard **2 lug** wall boxes and comply with BSEN55014, EN50082-1(EMC) and EN60669-2-1(LVD). Metal wall boxes must be a minimum of 41mm deep and must be earthed.

## Heat Dissipation and De-rating Information

**De-rating** may be required to ensure adequate dissipation of the heat generated by the dimmers behind a plate. Distribute dimmers evenly across grids and rows from bottom grid up.

**The following total plate loads must not be exceeded:**

<u>Cover plate size in mm</u>	<u>Watts</u>	<u>VA (LV)</u>
76x76 to 86x86	500	400
137x76 to 146x86	1000	700
137x137 to 146x146	1500	1000
197x137 to 206x146	2000	1350
197x197 to 219x222	2500	1800
257x197 to 279x222	3000	2000

For Grid Mechanical Assembly see overleaf.

**IF IN DOUBT CONSULT A QUALIFIED  
ELECTRICIAN**

## GUARANTEE

We guarantee that, should any defect in workmanship or material occur in this unit within 24 months of the date of purchase, we will replace or repair the defective item free of charge on condition that:

1. It has not been overloaded and it has been installed in accordance with the recognised electrical procedure and the installation instructions provided.
2. It has not been used on a supply other than that shown on the rear of the rotary control.
3. It has not been scratched, damaged, dismantled, tampered with or modified in any way.

This guarantee does not affect your statutory rights.

## Dimming of Low Voltage Lighting

All Wire Wound & Toroidal transformers are intrinsically dimmable. If electronic transformers are used please ensure that they require leading edge technology dimming to ensure compatibility. Observe minimum & maximum loads on the dimmers and the transformers.

## Dimming Mains GU10/GZ10 Lamps

There is no need to allow for de-rating when dimming mains halogen lamps as the dimmer has "soft start" which prevents the inrush of current from damaging the lamps & dimmer. This feature can double the lamp life. The use of internally fused lamps is recommended to protect the dimmer on lamp failure.

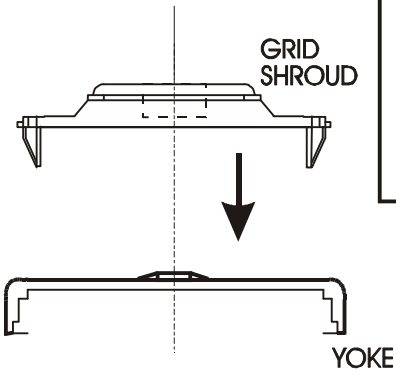
**WARNING:  
FIRST SWITCH OFF THE SUPPLY AT THE MAINS**

**A QUALITY PRODUCT  
DESIGNED AND MANUFACTURED IN THE UNITED  
KINGDOM**

## INSTALLATION INSTRUCTIONS

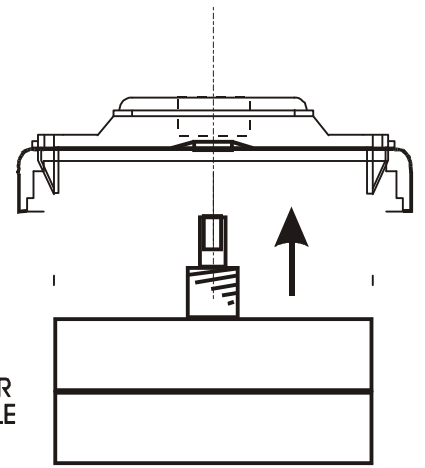
1. Switch off at mains and remove existing switch, carefully noting which terminals the wires are connected to.  
Connect maximum 1.5mm<sup>2</sup> stranded or solid wires to the dimmer in accordance with the relevant diagram shown.
2. Fit the correct grid shroud into the yoke, fit the dimmer from the rear and secure with the ring nut. (See detailed instructions overleaf). Secure the dimmer(s) & plate into the wallbox ensuring correct earthing and mechanical alignment.
3. Finally check suitability of lamp/load.
4. Switch on the mains supply and the dimmer is now ready for use.  
If a slight buzz is heard, this is quite normal and will not harm the unit. After it has been running for some time the dimmer may feel warm to the touch.

# ASSEMBLY SEQUENCE OF **SECTOR** GRID DIMMER MODULE



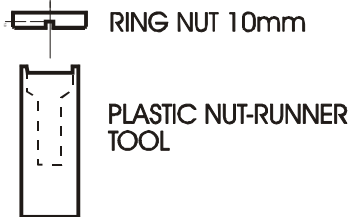
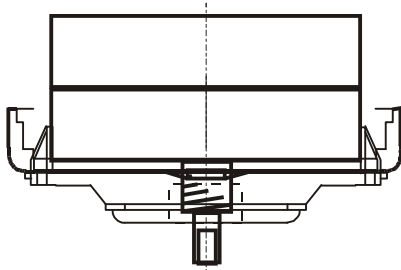
1. REMOVE CONTROL KNOB
2. UNDO RING NUT WITH NUTRUNNER
3. REMOVE GRID SHROUD
4. CLIP OR SECURE APPROPRIATE GRID SHROUD INTO GRID YOKE

STAGE 1



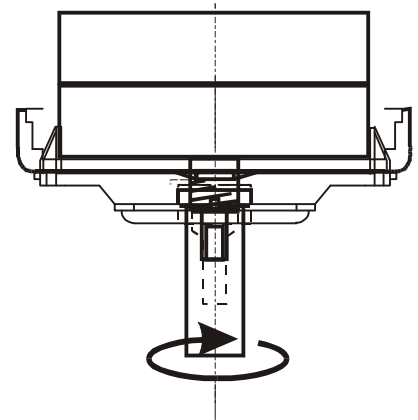
PLACE DIMMER MODULE INTO REAR OF GRID YOKE AND SHROUD

STAGE 2



PLACE RING NUT INTO FRONT OF GRID SHROUD (OVER SPINDLE)

STAGE 3



SLOWLY ROTATE CLOCKWISE (TO TIGHTEN) WITHOUT CROSS-THREADING

PREVENT RING NUT FROM FALLING OUT OF COUNTERBORE BY OFFERING NUTRUNNER GENTLY UP AGAINST RING NUT. ROTATE TOOL AND THEREFORE RING NUT INTO CORRECT POSITION TAKING GREAT CARE NOT TO CROSS THREAD THE RING NUT AND BUSH.

STAGE 4

FIT CONTROL KNOB

STAGE 5

SIZE OF SINGLE MODULE  
Depth - 34mm  
Width - 25mm  
Length - 56mm

41mm DEEP WALL BOX REQUIRED