

Grid Plus

Modular Switch System

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PRODUCT RANGE

For full product range, please refer to tables on pages 2:6, 3:6 and listing on page 4:6

Standards and approvals

Switch modules

BS 3676: Part 1: 1989

Indicator units

BS 5733: 1995

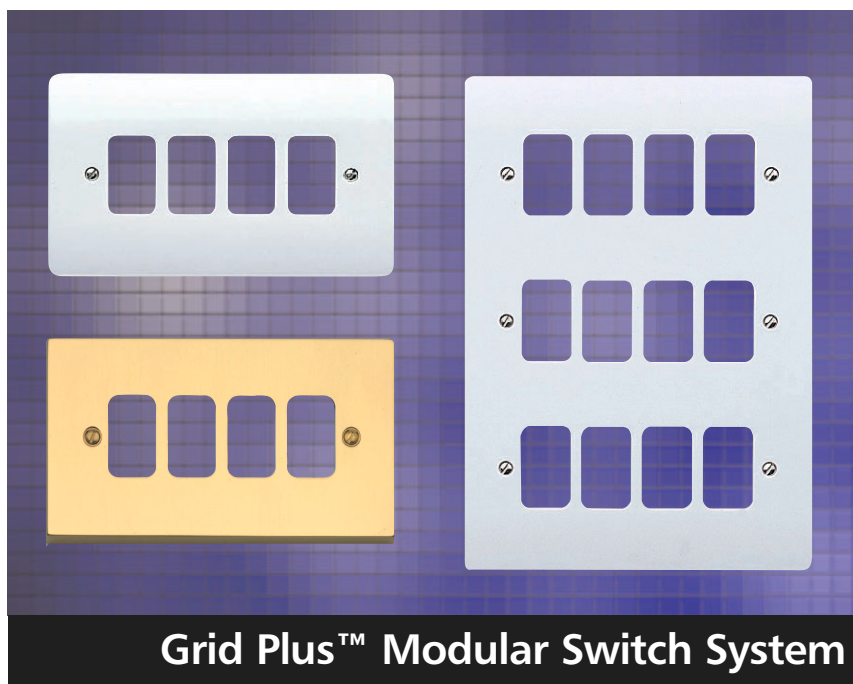
Dimmer switches

Dimmers comply with IEC 669-2-1, BSEN 50082-1

Accessory modules

Single non-isolated, TV/FM socket outlet, BS 3041: Part 2: 1977

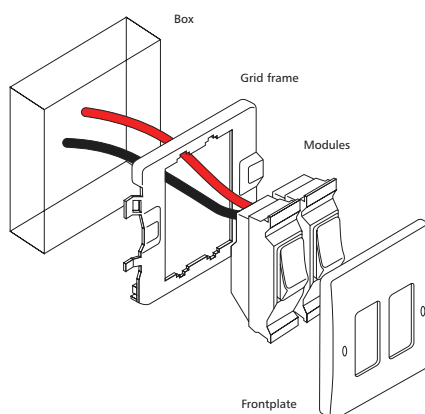
GRID
— PLUS



Grid Plus™ Modular Switch System

Description

Grid Plus is a comprehensive modular switching and monitoring system ideal for a variety of applications within the commercial, public and domestic sectors.



Grid Plus cover plates have the advantageous design features of the Logic Plus range and the interchangeable modules also feature many of the wiring and installation benefits common to the Logic Plus range.

The system is extremely easy to assemble (see illustration) and modules can be individually changed without re-wiring of complete assembly by removal of frontplate and simply clipping in or out as required. For further installation details see 'Installation' overleaf.

Universal Socket

The Universal Socket does not incorporate an earth contact. Therefore appliances needing earth connection, (class 1 equipment), must NOT be used with the socket.

The socket is intended for use with BS, VSA & CEE standard plugs.

Features

- Grid modules clip fit to frame without special tools
- Modules can be removed/replaced when grid frame is fixed in position
- Grid Plus styling matches Logic Plus plate switch range
- All products are 100% tested before delivery
- Options of neon/filament indicators label in rocker or printed rockers
- Wide variety of switch modules rated at 10 or 20 amps
- Single or double dimmer modules available
- Vast range of grid plates and modules from one source
- High quality passivated grid frame
- Grid frame earth terminal has 16mm² cable capacity
- Backed out and captive terminal screws
- Plated grid frame prevents corrosion
- Up to 12 gang Logic Plus grid frontplates and up to 24 gang in decorative metal finish frontplates
- Top access terminal screws

Grid Plus

Modular Switching System

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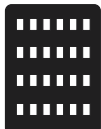
SELECTION
CHART

	1 	2 	3 	4 	6 
	COVER PLATES				
LOGIC PLUS	K3631 WHI	K3632 WHI	K3633 WHI	K3634 WHI	K3636 WHI
METALCLAD PLUS	K3491 ALM	K3492 ALM	K3493 ALM	K3494 ALM	K3496 ALM
ALBANY PLUS					
MCO matt chrome	K3431 MCO	K3432 MCO	K3433 MCO	K3434 MCO	K3436 MCO
SAB satin brass	K3431 SAB	K3432 SAB	K3433 SAB	K3434 SAB	K3436 SAB
CHROMA PLUS	K3431 PCR	K3432 PCR	K3433 PCR	K3434 PCR	K3436 PCR
GROSVENOR PLUS	K4331 POB	K4332 POB	K4333 POB*	K4334 POB	K4346 POB
SAVOY PLUS	K5331 PBS	K5332 PBS	*will not take K4500 WHI K5333 PBS	K5334 PBS	K5346 PBS
EDGE INSIGNIA (non UK)	K14331 See colour key page 3:6	K14332 See colour key page 3:6	K14333 See colour key page 3:6	K14334 See colour key page 3:6	K14346 See colour key page 3:6
	BOXES				
LOGIC PLUS flush	891 ALM 2 x 20mm knockouts Dim: 73 x 73 x 40mm	891 ALM 2 x 20mm knockouts Dim: 73 x 73 x 40mm	892 ALM 4 x 20, 4 x 25mm knockouts Dim: 73 x 133 x 40mm	892 ALM 4 x 20, 4 x 25mm knockouts Dim: 73 x 133 x 40mm	893 ALM 4 x 20, 4 x 25mm knockouts Dim: 73 x 133 x 40mm
	821 ALM without knockouts Dim: 73 x 73 x 40mm	821 ALM without knockouts Dim: 73 x 73 x 40mm	822 ALM without knockouts Dim: 73 x 133 x 40mm	822 ALM without knockouts Dim: 73 x 133 x 40mm	823 ALM without knockouts Dim: 73 x 133 x 40mm
LOGIC PLUS surface metal	K2213 ALM 5 x 20mm knockouts	K2213 ALM 5 x 20mm knockouts	K2214 ALM 7 x 20mm knockouts	K2214 ALM 7 x 20mm knockouts	
	K2211 ALM without knockouts	K2211 ALM without knockouts	K2212 ALM without knockouts	K2212 ALM without knockouts	
LOGIC PLUS surface moulded	K2140 WHI with knockouts	K2140 WHI with knockouts	K2142 WHI with knockouts	K2142 WHI with knockouts	
LOGIC PLUS surface pvc	K2181 WHI with knockouts	K2181 WHI with knockouts	K2183 WHI with knockouts	K2183 WHI with knockouts	
METALCLAD PLUS & ALBANY PLUS surface	K8891 ALM 5 x 20mm knockouts	K8891 ALM 5 x 20mm knockouts	K8892 ALM 7 x 20mm knockouts	K8892 ALM 7 x 20mm knockouts	K8893 ALM 4 x 20mm, 4 x 25mm knockouts
	K8821 ALM without knockouts	K8821 ALM without knockouts	K8822 ALM without knockouts	K8822 ALM without knockouts	K8823 ALM without knockouts
	K8901 ALM deep box 5 x 20mm knockouts	K8901 ALM deep box 5 x 20mm knockouts	K8902 ALM deep box 4 x 20mm, 4 x 25mm knockouts	K8902 ALM deep box 4 x 20mm, 4 x 25mm knockouts	
ALBANY PLUS CHROMA PLUS & EDGE flush	891 ALM 2 x 20mm knockouts Dim: 73 x 73 x 40mm	891 ALM 2 x 20mm knockouts Dim: 73 x 73 x 40mm	892 ALM 4 x 20, 4 x 25mm knockouts Dim: 73 x 133 x 40mm	892 ALM 4 x 20, 4 x 25mm knockouts Dim: 73 x 133 x 40mm	893 ALM 4 x 20, 4 x 25mm knockouts Dim: 73 x 133 x 40mm
	821 ALM without knockouts Dim: 73 x 73 x 40mm	821 ALM without knockouts Dim: 73 x 73 x 40mm	822 ALM without knockouts Dim: 73 x 133 x 40mm	822 ALM without knockouts Dim: 73 x 133 x 40mm	823 ALM without knockouts Dim: 73 x 133 x 40mm
GROSVENOR PLUS & SAVOY PLUS flush	891 ALM 2 x 20mm knockouts Dim: 73 x 73 x 40mm	891 ALM 2 x 20mm knockouts Dim: 73 x 73 x 40mm	892 ALM 4 x 20, 4 x 25mm knockouts Dim: 73 x 133 x 40mm	892 ALM 4 x 20, 4 x 25mm knockouts Dim: 73 x 133 x 40mm	893 ALM 4 x 20, 4 x 25mm knockouts Dim: 73 x 133 x 40mm
	821 ALM without knockouts Dim: 73 x 73 x 40mm	821 ALM without knockouts Dim: 73 x 73 x 40mm	822 ALM without knockouts Dim: 73 x 133 x 40mm	822 ALM without knockouts Dim: 73 x 133 x 40mm	823 ALM without knockouts Dim: 73 x 133 x 40mm
	GRIDS				
Edge/Insignia cover plates include an integral grid	K3701 	K3702 	K3703 	K3704 	K3703 X 2 

Grid Plus

Modular Switching System

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SELECTION CHART	8 	9 	12 	18 	24 
LOGIC PLUS	K3638 WHI		K3639 WHI		
METALCLAD PLUS	K3498 ALM	K3499 ALM	K3502 ALM	K3508 ALM	K3514 ALM
ALBANY PLUS					
MCO matt chrome	K3438 MCO	K3439 MCO	K3442 MCO	K3448 MCO	K3454 MCO
SAB satin brass	K3438 SAB	K3439 SAB	K3442 SAB	K3448 SAB	K3454 SAB
CHROMA PLUS	K3438 PCR	K3439 PCR	K3442 PCR	K3448 PCR	K3454 PCR
GROSVENOR PLUS	K4348 POB		K4352 POB		
SAVOY PLUS	K5348 PBS		K5352 PBS		
EDGE INSIGNIA (non UK)	K14348 See colour key	K14349 See colour key	K14352 See colour key	K14358 See colour key	K14354 See colour key
LOGIC PLUS flush	893 ALM 4 x 20, 4 x 25mm knockouts Dim: 73 x 133 x 40mm		895 ALM 5 x 20, 5 x 25mm knockouts Dim: 194 x 133 x 40mm	COLOUR KEY All Edge frontplates (Insignia range in non UK markets) are supplied with grid module mounting frame. Add the appropriate colour suffix to the list no. eg K14331 BSS. BSS Brushed Stainless Steel PBR Polished Brass SAA Silver Anodised Aluminium POC Polished Chrome WHI White BLA Black Anodised Aluminium PBZ Polished Bronze ABR Antique Bronze BBR Brushed Brass GLD Gold Plate	
LOGIC PLUS surface metal	823 ALM without knockouts Dim: 73 x 133 x 40mm		825 ALM without knockouts Dim: 194 x 133 x 40mm		
LOGIC PLUS surface moulded					
LOGIC PLUS surface pvc					
METALCLAD PLUS & ALBANY PLUS surface	K8893 ALM 4 x 20mm, 4 x 25mm knockouts K8823 ALM without knockouts	K8895 ALM 5 x 20mm, 5 x 25mm knockouts K8825 ALM without knockouts	K8895 ALM 5 x 20mm, 5 x 25mm knockouts K8825 ALM without knockouts	K8898 ALM 5 x 20mm, 5 x 25mm knockouts K8826 ALM without knockouts	K8900 ALM 6 x 20mm, 6 x 25mm knockouts K8827 ALM without knockouts
ALBANY PLUS CHROMA PLUS & EDGE flush	893 ALM 4 x 20, 4 x 25mm knockouts Dim: 73 x 133 x 40mm 823 ALM without knockouts Dim: 73 x 133 x 40mm	895 ALM 5 x 20, 5 x 25mm knockouts Dim: 194 x 133 x 40mm 825 ALM without knockouts Dim: 194 x 133 x 40mm	895 ALM 5 x 20, 5 x 25mm knockouts Dim: 194 x 133 x 40mm 825 ALM without knockouts Dim: 194 x 133 x 40mm	898 ALM 6 x 32mm knockouts	900 ALM 6 x 32mm knockouts
GROSVENOR PLUS & SAVOY PLUS flush	893 ALM 4 x 20, 4 x 25mm knockouts Dim: 73 x 133 x 40mm 823 ALM without knockouts Dim: 73 x 133 x 40mm	895 ALM 5 x 20, 5 x 25mm knockouts Dim: 194 x 133 x 40mm 825 ALM without knockouts Dim: 194 x 133 x 40mm	895 ALM 5 x 20, 5 x 25mm knockouts Dim: 194 x 133 x 40mm 825 ALM without knockouts Dim: 194 x 133 x 40mm	898 ALM 6 x 32mm knockouts	900 ALM 6 x 32mm knockouts
Edge/Insignia cover plates include an integral grid	K3704 X 2 	K3703 X 3 	K3704 X 3 	K3706 X 3 	K3706 X 4 

Modular Switching System

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PRODUCT RANGE			
10A switch modules			
10A SP 1 Way	K4881 WHI		
10A SP 2 Way	K4882 WHI		
10A retractive	K4900 WHI		
10A DP 1 way	K4981 WHI		
10A SP 2 way + "press"	K4885P WHI		
10A SP 2 way push	K4885 WHI		
10A SP 2 way red push	K4885 RED		
10A SP 2 way push + "bell"	K4885B WHI		
20A switch modules			
20A SP 1 way	K4891 WHI		
20A SP 2 way	K4892 WHI		
20A intermediate	K4893 WHI		
20A SP way & off	K4899 WHI		
20A SP 2 way secret key biased switch	K4918 WHI		
20A intermediate secret key	K4894 WHI		
20A SP 2 way secret key	K4898 WHI		
20A DP 1 way	K4896 WHI		
20A DP 1 way push to make	K4910 WHI		
20A DP 1 way push to make	K4910 RED		
20A DP 1 way push to break	K4915 WHI		
		20A DP 1 way red push to break	K4915 RED
		20A DP 1 way secret key	K4917 WHI
		20A DP 1 way switch/neon	K4896 NWHI
		20A SP 1 way switch with window	K4891 WWHI
		20A SP 2 way switch with window	K4892 WWHI
		20A DP 1 way switch with window	K4893 WWHI
		Indicator units	
		240V red neon	K4889 RED
		240V amber neon	K4889 AMB
		240V red neon	K4889 RED
		240V green neon	K4889 GRN
		24V red filament	K4836 RED
		24V amber filament	K4836 AMB
		24V green filament	K4836 GRN
		Dimmer switch	
		1 gang 220W/180VA	K4501 WHILV
		1 gang 400W/320VA	K4500 WHILV
		Accessory modules	
		Co-ax socket TV/FM 1 module	K4520 WHI
		Cord outlet 10mm diameter	K4886 WHI
		13A fuse unit	K4890 WHI
		1 module blank insert	K4880 WHI
		240V buzzer unit	K4000 WHI
		24V buzzer unit	K4001 WHI
		16A 2 pin universal socket	K4901 WHI
		Architrave frontplates	
		ALBANY PLUS	
		MCO matt chrome	K3401 MCO
		SAB satin brass	K3401 SAB
		CHROMA PLUS	K3401 PCR
		EDGE	K14401
		INSIGMIA (non UK)	See colour key page 3:6
		Architrave boxes	
		ALBANY PLUS, CHROMA PLUS & EDGE	3895 ZIC 3 x 20mm knockouts (for flush mounting only)
		flush	3891 ZIC 3892 ZIC 1 gang 2 gang Architrave boxes
		Architrave grid	
		Edge/Insignia cover plates include an integral grid	K3708

Multiple dimmer installation load ratings

To avoid overheating when using more than one dimmer in the same Grid Plus Enclosure it is recommended that the dimmers are preferentially mounted on the bottom row on 6, 8, 9, 12, 18 and 24 gang enclosures, before mounting on any other row(s). Also, each dimmer MUST be de-rated and its load adjusted in accordance with the information provided in Table 3.

The maximum Power/Load figures given in table 3 should not be exceeded, taking due care with different figures for normal GLS tungsten filament lamps compared with Mains Tungsten Halogen Lamps and Low Voltage Transformers. Use of the latter is not recommended.

Load adjustment table for Grid Plus Dimmers

Frontplate Size, Number of Gangs	2	3	4	6	8	9	12	18	24
Max Power/Load <u>per Row</u> – Tungsten GLS Lamps – W	400	480	480	480	480	480	480	720	720
Max Power/Load <u>per Row</u> – Mains Tungsten Halogen Lamps or Low Voltage Transformers – W or VA	320	380	380	380	380	380	380	580	580
Max Power/Load for <u>Total Plate</u> – Tungsten GLS Lamps – W	400	480	480	740	740	940	940	1440	1800
Max Power/Load for <u>Total Plate</u> – Mains Tungsten Halogen Lamps or Low Voltage Transformers – W or VA	320	380	380	600	600	750	750	1155	1440

Grid Plus™

Modular Switching System

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TECHNICAL SPECIFICATION

Electrical

Switches

Voltage rating:
250V a.c., 50 Hz

Current rating:
10 or 20 amps – no derating when used on
fluorescent or inductive loads.

Load type:
No restriction

Terminal capacity:
4 x 1mm², 4 x 1.5mm², 4 x 1mm², 3 x 2.5mm²,
2 x 4mm², 1 x 6mm²

Indicator Units

Voltage rating:
24V indicators - min. 21V, max. 36V
240V indicators - min. 200V, max 250V

Terminal capacity:
as switches

Buzzer Unit

Voltage rating:
240V
24V

Terminal capacity:
as switches

Fuse Unit

Voltage rating:
250V

Current rating:
13 amps

Terminal capacity:
2 x 4mm²

Cord Outlet

Voltage rating:
250V

Current rating:
16 amps

Terminal capacity
Supply: 2 x 4mm²
Load: 1 x 1.5mm² multi-strand

Dimmers

Voltage rating:
230V a.c., 50Hz

Load rating:
For ingle dimmer installations:
K4500 min. 40W/VA, max. 400W/320 VA
K4501 min. 40W/VA, max. 220W/180 VA
K4510 min. 40VA, max. 400W
K4511 min. 40VA, max. 220W
For multiple dimmer installation see Load Adjustment
table.

Load types:
K4500, K4501 tungsten filament (GLS) lamps
Low voltage lighting electronic or wire-wound
transformers

Soft start:
Raises from low to control knob setting in 1-3 secs,
(increases lamp life significantly)

Terminal capacity
1 x 2.5mm² 2 x 1.5mm²

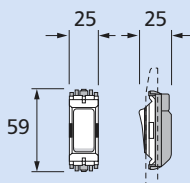
Universal Socket

Voltage rating
125/250V

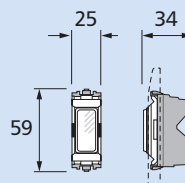
Current rating:
16 amps

Terminal capacity
2 x 6mm² (stranded)
3 x 4mm² 3 x 2.5mm²

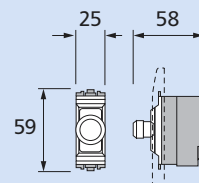
Dimensions (mm)



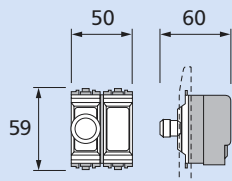
All switch and
indicator modules



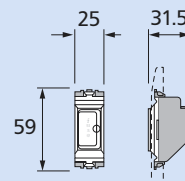
24/240V
buzzer units



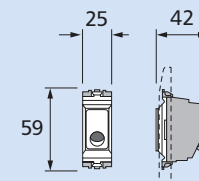
Single dimmer
module



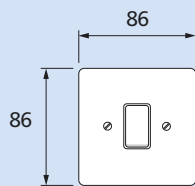
Double dimmer
module



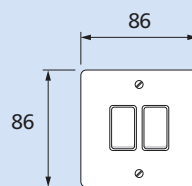
Fuse unit



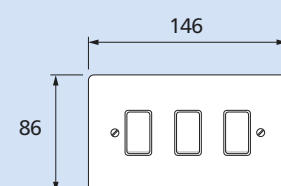
Cord unit



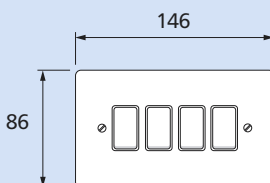
1 gang



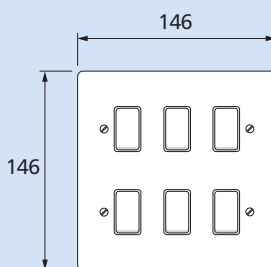
2 gang



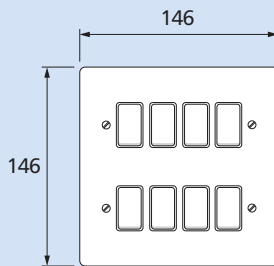
3 gang



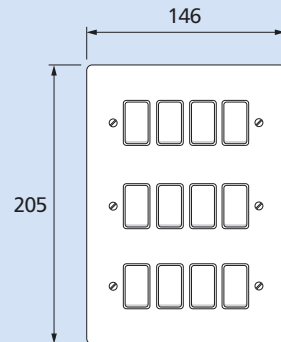
4 gang



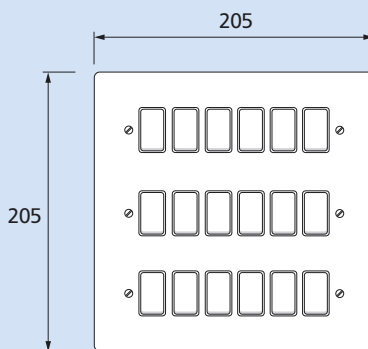
6 gang



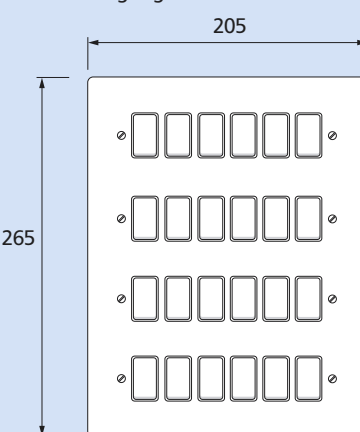
8 gang



12 gang



18 gang



24 gang

Grid Plus™**Modular Switching System**

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TECHNICAL SPECIFICATION**Physical (all products)**Operating temperature:
-5°C to +40°CIP rating:
IP4-Max. installation altitude:
2000 metres**Installation****General**

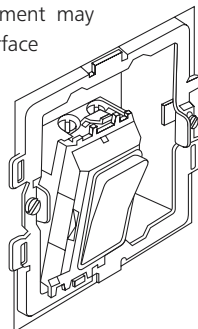
Cut cables to length and make earth connections to grid. Earth: bond Grid Frame to metal mounting box. Grid frames are screwed to back box, modules wired as appropriate and simply clipped into grid frame by hand. No tools are necessary. The front plate is screw fixed to the grid frame to finish the assembly.

To remove or change modules, simply remove front plate. Individual modules fit perfectly into the frontplate in flush fitting installations.

Grid mounting

An integral design feature automatically ensures that the modules fit perfectly into the frontplate in flush fitting installations.

Some manual adjustment may be required for surface mounted applications.



- 1 Locate bottom tab of module in base of grid.
- 2 Module pushes into place at top with a 'click'.
- 3 To remove module, press tab at top and lever forward.

Standards and approvals**Switch modules**

BS 3676: Part 1: 1959

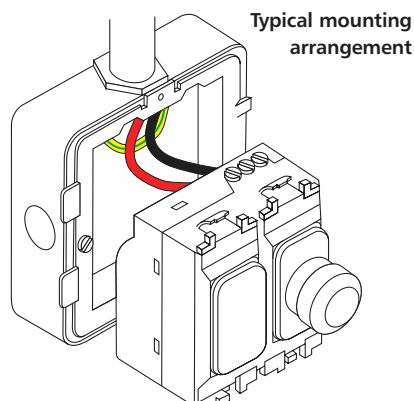
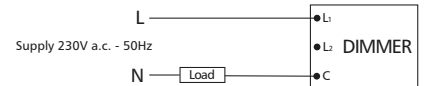
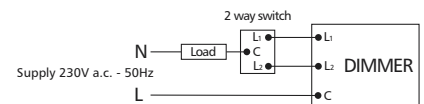
Indicator units

BS 5733: 1995

Dimmer switchesDimmers comply with BS EN 60669-2-1,
BS EN 55015**Accessory modules**Single non-isolated, TV/FM socket outlet,
BS 3041: Part 2: 1977**Dimmers**

The two module dimmers can only be fitted into two, or four module wide Grid Mounting Frames, and therefore can only be used with 2, 4, 8 and 12 Gang Frontplates.

To avoid overheating when using more than one dimmer in the same Grid Plus Enclosure it is recommended that the dimmers are preferentially mounted on the bottom row on 6, 8, 9, 12, 18 and 24 Gang Enclosures, before mounting on any other rows and its load adjusted in accordance with the information provided in the Load adjustment table on page 3:4.

**Dimmer wiring diagram****One-way switching****Two-way switching (only one dimmer can be used)**

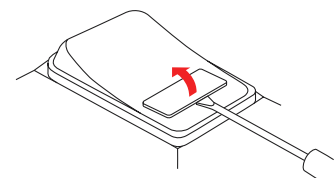
Wires must be connected to the correct Dimmer terminals.
DO NOT connect earth to Dimmer

Rocker window labels

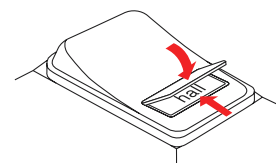
The following labels are available for insertion into window rockers.

air conditioner	water heater	dish washer	store
bedroom	dining area	kitchen	lounge
pool	lights	bar	conference room
office	reception	bell	push
front	middle	bottom	rear
back	top	landing	hall
porch	toilets	ladies	gents
exterior			

The simple installation process is shown below.



Prise out window
on rocker



Peel off and insert
label. Replace window

Spare labels and windows are available.

TV/FM socket outlets

The TV outlet must not be mounted in the same enclosure as mains exceeding 50V.

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