Crabtree
Driven by Powertech

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Product Code Explanation

CLASSIC RANGE

STANDARD COLOUR WHITE

PRODUCT | MATERIAL | COLOUR

X X X / X X X

This section should be used to identify the product with all its variations excluding material and colour

1	Steel
2	
3	
4	
5	Brass
6	Plastic
7	Cast brass
8	
9	
0	Colour

0	1	White
0	2	Orange
0	3	Red
0	4	Ivory
0	5	Grey
0	6	
0	7	Blue
0	8	Black
0	9	Brass bronze/Lacquered
1	0	Brass highly polished/Lacquered
1	1	Brass satin chrome/Lacquered
1	2	Mercedes grey

e.g. 50 x 100mm 1 Lever Brass C/Plate Highly Polished 6541/510

5 4 1 / 5 1 0

- 5 4 1 — 1 Lever Vertical
- / — Brass
- 5 1 0 — Brass Highly Polished/Lacquered

NOTE: where variations of coverplates are available, the code is Identified by adding above numbers

All switch and socket modules are available in red, blue and black

Delivery three weeks from date of order

DIAMOND RANGE COLOUR COVER PLATE OPTIONS

White /601 | Red /603 | Blue /607 | Black /608 | Silver Grey /612

Champagne /651 | Charcoal /662 | Graphite Brown /682 | Iced Coffee /683 | Olive /662

E. & O. E.

Crabtree has taken every effort to ensure that no errors have been made in the compilation of this catalogue and price book, however we reserve the right should a pricing or product description be in error to amend these at time of quotation or purchase.

Rotary Dimmer General Wiring Diagram

It is important to select the right product for the desired load. Please consult the Crabtree Dimmer selection chart below.

Single Circuit:

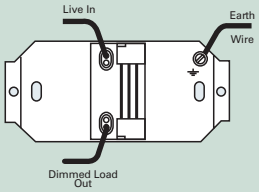


Figure 1
Installation:

- Turn off the mains at the distribution board.
- Remove existing cover plate and unscrew the steel cradle from the wall box.
- Before disconnecting the existing wires, please study the applicable illustration and then proceed to connect the dimmer.
- A single circuit can be connected as per Figure 1 above.
- Check that all connections are tight and insulated.
- Re-assemble the cradle into the wall box and re-fit the cover plate.

Single Circuit:

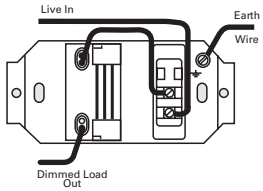


Figure 2
Installation:

- Turn off the mains at the distribution board.
- Remove existing cover plate and unscrew the steel cradle from the wall box.
- Before disconnecting the existing wires, please study the applicable illustration and then proceed to connect the dimmer.
- Note that additional circuits may be connected to the in-coming live and remain undimmed, as per figure 2 above.
- Check that all connections are tight and insulated.
- Re-assemble the cradle into the wall box and re-fit the cover plate.

Two Circuit:

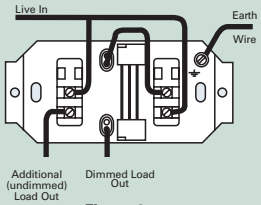
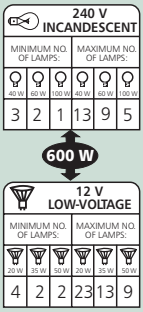


Figure 3
Installation:

- Turn off the mains at the distribution board.
- Remove existing cover plate and unscrew the steel cradle from the wall box.
- Before disconnecting the existing wires, please study the applicable illustration and then proceed to connect the dimmer.
- Note that additional circuits may be connected to the in-coming live and remain undimmed, as per figure 3 above.
- Check that all connections are tight and insulated.
- Re-assemble the cradle into the wall box and re-fit the cover plate.

Rotary Dimmer Selection Chart



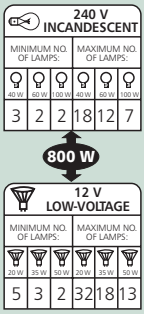
Important Warning:

Caution:

- Low voltage lighting circuits, add 100 W to the sum of the lamp wattage rating and ensure that this value is below the dimmer's maximum rating.
- In accordance with SABS 0142: Code of Practice for the wiring of premises, this product should be installed by a qualified electrician only.

Notes:

- A slight audible buzz is normal and indicative of the radio interference suppression circuit working in accordance with required specifications. This buzz should not be audible from approximately 1m away.
- Where flickering occurs on low voltage circuits, use a Crabtree voltage stabilizer to rectify the problem.
- These dimmers are rated for 220/250 V 50 Hz and are SABS 1012 compliant.



Rotary Dimmer Installation Instructions

Important Warning:
Please read these instructions fully and study the illustrations before attempting to install this device. It is important to select the right product for the desired load.

Please consult the Crabtree dimmer selection chart. In accordance with SABS 0142: Code of Practice for the wiring of premises. This product should be installed by a qualified electrician.

Caution:
When installing Rotary dimmers into low lighting voltage circuits, add 100 W to the sum of the lamp Wattage rating and ensure that this value is below the dimmer maximum rating.

- Do not exceed the maximum Wattage rating of the dimmer.
- Not suitable for energy saving lamps.
- Not suitable for fluorescent lights.
- Non adherence to the above may lead to the premature failure of the dimmer, invalidating the guarantee.

Installation:

- Turn off the mains at the distribution board.
- Remove existing cover plate and unscrew the cradle from the wall box.
- Before disconnecting the existing wires, please study the applicable illustration and then proceed to connect the dimmer.

Single Circuit: As the Crabtree dimmer is fitted with an internal switch, a single circuit can be connected as per Fig. 1.
Single Circuits: Note that additional circuits may be connected to the incoming live and remain undimmed. As per Fig. 2.
Two Circuits: See Fig. 3.

- Check that all connections are tight and insulated.
- Re-assemble the cradle into the wall box and refit the cover plate.

Notes:

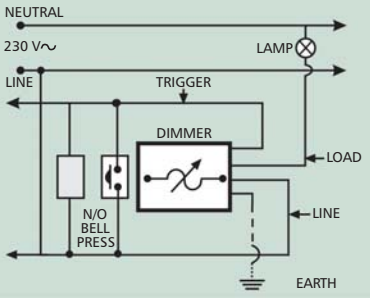
1. A slight audible buzz is normal and indicates that the radio interference suppressor circuit is working in accordance with required specifications. This buzz should not be audible from approximately 1 m away.
2. Where flicker occurs on low voltage circuit, use Crabtree voltage stabilizer to rectify the problem.

THIS DIMMER IS RATED FOR 220/250 V 50 HZ AND IS SABS 1060 COMPLIANT

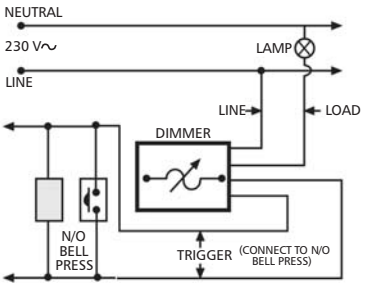
Split Dimmer General Wiring Diagram

It is important to select the right product for the desired load. Please consult the Crabtree Dimmer selection chart below.

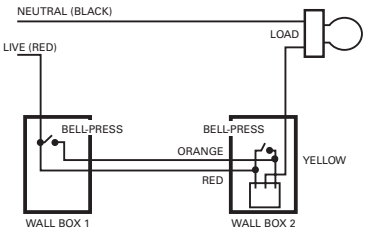
3-connection (for Metal Housing Type Dimmers)



4-connection (for Plastic Housing Type Dimmers)



Connection for Bellpress



SPLIT DIMMER SELECTION CHART

240 V INCANDESCENT					
MINIMUM NO. OF LAMPS:			MAXIMUM NO. OF LAMPS:		
40 W	60 W	100 W	40 W	60 W	100 W
2	1	1	9	6	3

400 W

12 V LOW-VOLTAGE					
MINIMUM NO. OF LAMPS:			MAXIMUM NO. OF LAMPS:		
20 W	35 W	50 W	20 W	35 W	50 W
3	2	1	16	9	6

240 V INCANDESCENT					
MINIMUM NO. OF LAMPS:			MAXIMUM NO. OF LAMPS:		
40 W	60 W	100 W	40 W	60 W	100 W
3	2	1	13	9	5

600 W

12 V LOW-VOLTAGE					
MINIMUM NO. OF LAMPS:			MAXIMUM NO. OF LAMPS:		
20 W	35 W	50 W	20 W	35 W	50 W
4	3	2	25	14	10

240 V INCANDESCENT					
MINIMUM NO. OF LAMPS:			MAXIMUM NO. OF LAMPS:		
40 W	60 W	100 W	40 W	60 W	100 W
4	3	2	22	16	9

1000 W

12 V LOW-VOLTAGE					
MINIMUM NO. OF LAMPS:			MAXIMUM NO. OF LAMPS:		
20 W	35 W	50 W	20 W	35 W	50 W
7	4	3	43	24	17

240 V INCANDESCENT					
MINIMUM NO. OF LAMPS:			MAXIMUM NO. OF LAMPS:		
40 W	60 W	100 W	40 W	60 W	100 W
6	4	3	33	22	13

1500 W

12 V LOW-VOLTAGE					
MINIMUM NO. OF LAMPS:			MAXIMUM NO. OF LAMPS:		
20 W	35 W	50 W	20 W	35 W	50 W
11	6	5	65	37	26

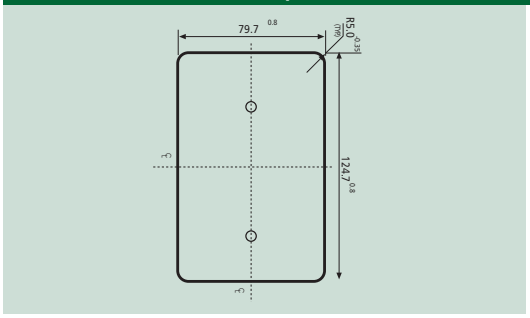
240 V INCANDESCENT					
MINIMUM NO. OF LAMPS:			MAXIMUM NO. OF LAMPS:		
40 W	60 W	100 W	40 W	60 W	100 W
8	5	3	45	30	18

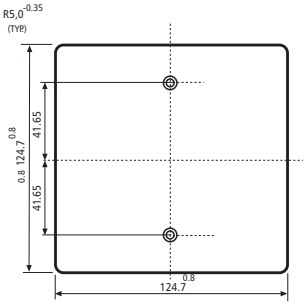
2000 W

12 V LOW-VOLTAGE					
MINIMUM NO. OF LAMPS:			MAXIMUM NO. OF LAMPS:		
20 W	35 W	50 W	20 W	35 W	50 W
15	9	6	88	50	35

SABS APPROVED

Cover plates to fit 100mm X 50mm and 100mm x 100mm Wall B ox



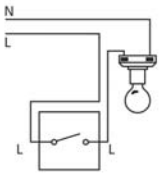


SABS and SANS Standard Specification Codes

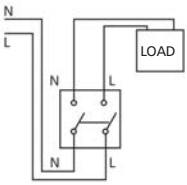
Standard Specification:	SANS 60669	**Standard Specification:**	SANS 60947-3
Title:	Wall and Appliance Switches	**Title:**	Isolators
Standard Specification:	SABS-164-1 (Also to SANS 60884)	**Standard Specification:**	SABS 1012
Title:	Plugs and Socket Outlets for	**Title:**	Dimmers
	Household and similar purposes.	**Standard Specification:**	SANS 60614-1
Part 1:	Conventional Systems	**Title:**	Conduit
	(6A and 16A, 250V)	**Standard Specification:**	SABS 950
Part 2:	SABS 164-2	**Title:**	Conduit Fittings
	National Adaptation of IEC	**Standard Specification:**	SABS 1084-2-1
	Worldwide System (16A 250V)	**Title:**	Trunking

Connection of Various Circuits

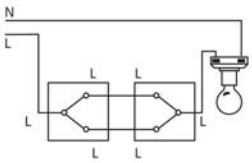
ONE-WAY CIRCUITS



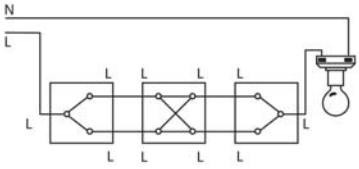
ONE-WAY CIRCUIT DOUBLE POLE



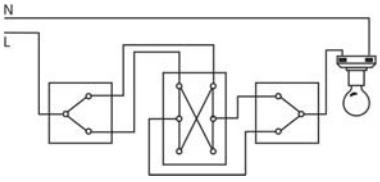
TWO-WAY CIRCUITS



CLASSIC MULTIPLE CONTROL CIRCUITS
(Intermediate Switch)



DIAMOND MULTIPLE CONTROL CIRCUITS
(Intermediate Switch)



SABS Notes

Single-Phase Circuits That Only Supply Socket-Outlets Rated at Not more than 16A

Single-Phase Circuits That Only Supply Socket-Outlets Rated at Not more than 16A shall, if the circuit protection is rated at more than 20A, use only protected socket-outlets, with, as far as is practicable, discrimination between the protective devices for the circuit and the protective devices associated with the socket-outlets. The protective device of a protected socket-outlet shall…

- have a fixed rated current that does not exceed the rating of the socket-outlet,
- be mounted next to the socket-outlet that it protects,
- provide protection against overload currents,
- unless short-circuit protection is provided by a separate device, for example on the distribution board, provide protection against short-circuit currents,
- if it needs the protection of a back-up short-circuit device, be marked with the required or maximum rating of the back-up device,
- if it protects more than one socket-outlet, be so installed that all the socket-outlets are connected in parallel, have the same rated current and are mounted next to the device, and may, if a ring circuit is used instead of a radial circuit, use conductors that are one size smaller than those that would be used for the radial circuit, provided that the rating of the conductors is at least 16A.

Crabtree Shaver Supply Unit

List No. 4590W Series **Input: 240V 50Hz** **Output: 20VA at 220V or 110V 50Hz**

The sample was tested for compliance with the requirements of BS 3535 Part 1:1996 Isolating transformers requirements.

This unit is suitable for use in accordance with the code of practice for the wiring of premises SABS-0142, 1987 Section 8 special locations as a zone 2 or zone 3 item.

The unit is designed for mains operated shavers only and is not necessarily suitable for any other personal/domestic appliances including re-chargeable shavers.

Care must be taken not to plug a 110V shaver into a 220V outlet as the shaver unit will be damaged.

Installation

- Isolate mains before starting work.
- For flush mounting use a 50mm deep steel box as per SABS-1085.
- Recommended stripping length, for cable installation, is 8mm.
- Cables should be connected as follows:

Terminal L - Live (Red)
Terminal N - Neutral (Black)
Terminal E - Earth (Green/Yellow)

(if protective conductor is bare — sheath with green/yellow insulation sleeve).

Test insulation before restoring mains supply.

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Use

1. Choose correct supply voltage to operate shaver.
2. Plug in mains shaver to energise the shaver supply unit transformer.
3. After use, unplug mains operated shaver to switch off.

NOTE: 220V ONLY.
Refer to appliance specification prior to use.

- British 5A to BS.4573
- Europlug 2.5A to CEE7/IEC83:C5
- Continental 10/16A to CEE7/IEC83:C6
- American 15A to ANSI:C. 73/IEC83:A1-15
- Australian 7.5A to AS:3112

Conditions of Use

The product referred to in this instruction leaflet should be installed by suitable qualified personnel in accordance with the requirements of all relevant legislation, regulations, and the accepted practice in the industry. Any further information which may be required about the use for which any specific product has been designed and tested, or about conditions of use, is available on request.