elektron technology

Launch Documentation

Antimicrobial Switches

Arcolectric

A Cleaner Surface

A hands-on approach to antimicrobial protection

elektron technology plc

Arcolectric & BioCote

antimicrobial products

Elektron Technology is proud to partner with BioCote Ltd, to offer a range of antimicrobial products; BioCote® inhibits the growth of microbes on the surfaces of the following Arcolectric products:

- Push Button Switches
- Rocker Switches
- Switch Covers

Why do we need antimicrobial protection?

Microbes and can be found in any environment, as a natural part of everyday life. Even in the cleanest of surroundings, microbes begin to multiply on surfaces, sometimes to harmful levels, with one microbe having the ability to multiply to more than four million microbes within only eight hours.

BioCote technology gives the product constant, built in antimicrobial protection providing a finish that helps prevent microbes growing on the surface. BioCote protected of potentially harmful bacteria, making the need for hygiene vital, to help prevent cross- contamination.

BioCote technology

BioCote Ltd is the market leader in providing built-in antimicrobial surface protection. Utilising the power of silver, a natural antimicrobial, BioCote technology is incorporated into products at the time of manufacture. The silver technology then gives the surface of the product constant, built-in antimicrobial protection, providing a finish that helps prevent microbes growing on the surface. With BioCote protection, the Arcolectric range of products surfaces provides protection 24 hours a day.

A complement to cleaning

BioCote complements hygiene practices, working in-between cleaning, 24 hours a day to reduce levels of microbes on surfaces. BioCote antimicrobial technology has a variety of beneficial properties, making it an ideal alternative to synthetic, organic chemicals:

- Non-toxic
- Naturally occurring, environmentally-friendly and sustainable
- Will not break down, wear off, wash off or leach out of products over time
- BioCote retains its antimicrobial efficacy for the expected lifetime of the product
- Does not function in the same way as antibiotics, therefore, there is no known evidence to suggest that bacteria are resistant to it

Natural & Safe

BioCote utilizes silver ion technology. Silver is a natural antimicrobial, with a high efficacy against microbes, mould and fungi. Silver has been used for centuries for its abilities to aid preservation and help prevent infection. Silver is non-toxic, naturally occurring and environmentally-friendly.

How BioCote works

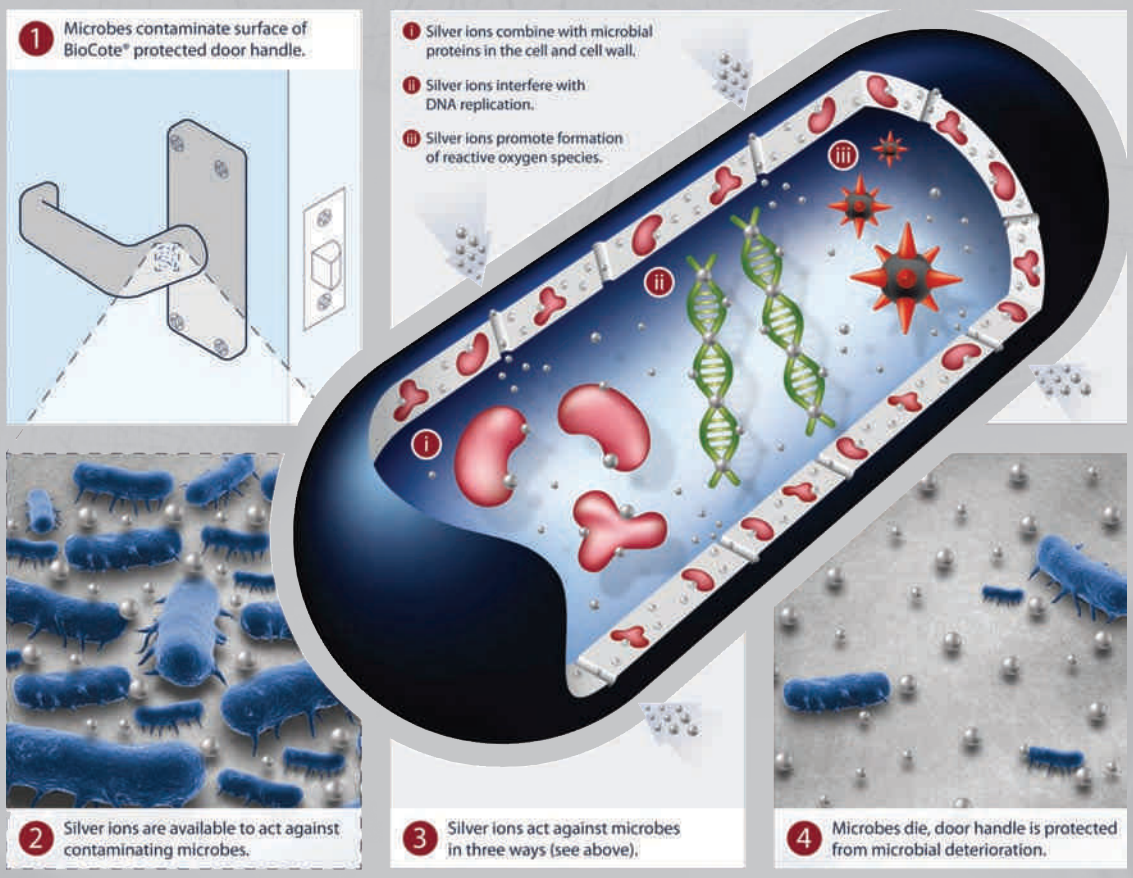
BioCote technology, in the form of silver ions, is manufactured into a product

Silver ions concentrate on the surface of the product and a low concentration are slowly released, giving it antimicrobial protection

Silver ions bind with any microbes that come into contact with the surface

The enzymes cannot produce energy, so the microbes are unable to re-produce

Silver – its remarkable properties



Simple

Silver can be economically engineered into products without large increases in production costs. Silver will not change the aesthetics of products, so they will still look and feel the same.

Long lasting

Once silver is incorporated into a product, it retains its antimicrobial efficacy for the lifetime of that product and will, therefore, not wear off, wash off or leach out.

Silver, therefore, gives products continuous antimicrobial protection throughout a product's useful life span.

Silver and other antimicrobials

There are two main types of antimicrobials: organic, based on chemicals and inorganic, such as silver.

Whilst organic antimicrobials are cost-effective, they have been linked to illnesses, such as cancer. Unlike silver technology, organic antimicrobials also decompose and leach from products and are therefore unable to provide long lasting antimicrobial efficacy. Research has also linked organic additives with bacterial resistance, due to their biological structure.

Inorganic antimicrobials, including silver, do not exhibit the toxicity of organic materials, making them safer to use.

is bacterial resistance a problem?

To date, there is no evidence demonstrating widespread resistance of bacteria to silver. In addition, silver's multi-modal antimicrobial activity reduces the opportunity for resistance to emerge.

Intrinsic resistance can be a problem for organic antimicrobials, due to "holes" in their spectrum of activity

Sources:

1: www.healthcarecommission.org.uk/newsandevents/newsstories.cfm

2: European Public Health Agency 2007

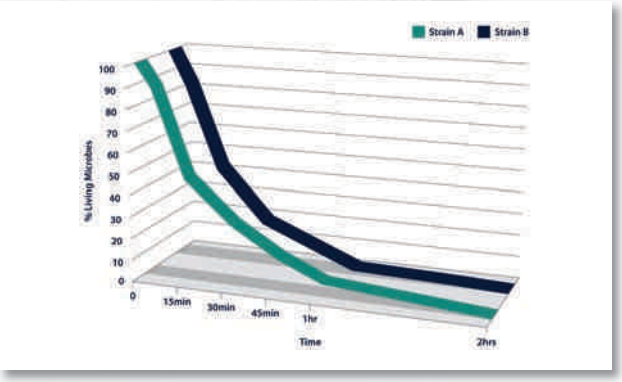
3: Food Standards Agency

BioCote®

Continuous protection & effectiveness

The BioCote brand is your guarantee of antimicrobial efficacy. All BioCote protected products are tested by an independent laboratory using the ISO22196:2007 test method. Laboratory tests show that on a BioCote protected surface, the levels of microbes are reduced by up to 99.9% over a 24-hour period.

BioCote protection will not break down, wear off or leach from the surface of a product. BioCote retains its antimicrobial efficacy for the lifetime of the range of products from Arcolectric.



An illustration showing the % reduction of Strain A and Strain B on a BioCote protected surface, using the ISO22196:2007 test method

Independent validation & quality control


CERTIFICATE OF EFFICACY

BioCote

Certificate No. 1017261.216/5666
Customer Ref. 50563

SAMPLE DETAILS DATE RECEIVED 13/09/2011

ELEKTRON

METHOD: Determination of Antibacterial Activity using Test Based on ISO 22196

DATE ANALYSED 21/09/11 DATE REPORTED 23/09/11

RESULTS (as cfu cm²)

SAMPLE	SPECIES	REDUCTION (%)
REF 0040CL01	STRAIN A	>99.89%
	STRAIN A	>99.89%
REF 0040CL01	STRAIN B	>99.90%
	STRAIN B	>99.90%

The above data shows the difference in the population following contact with the surface of the samples held for 24 hours at 35°C under 95% of RH, relative to initial population

BioCote Ltd
Technology Centre
Wolverhampton Science Park
Glaisher Drive
Wolverhampton
WV10 9RU

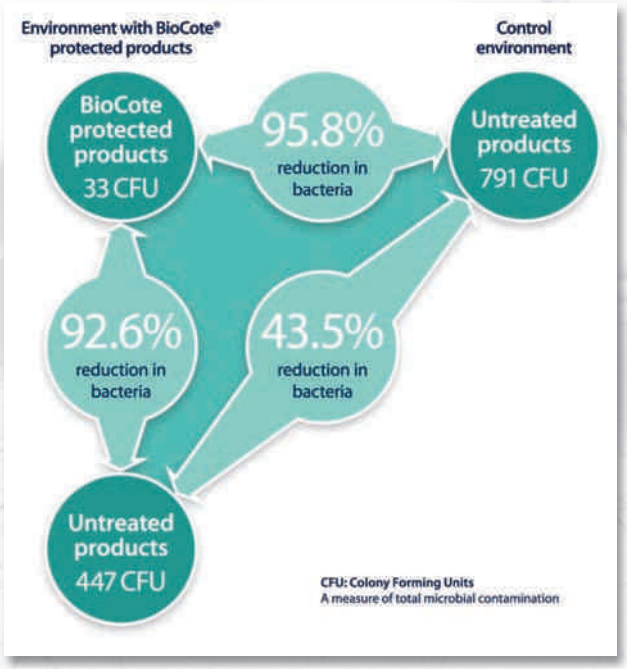
Technical Manager
Lesley Taylor

This information is shown above in the interests of providing a service only, based on records obtained from an independent laboratory.

BioCote provide continuous quality control testing, with testing at independent laboratories. Partners are provided with full certification.

Proven real-life reductions

BioCote Ltd is the first company to demonstrate how using silver treated products in a hospital environment results in a reduction in microbial contamination. The study was carried out in association with the Heart of England NHS Foundation Trust. It shows that BioCote protected products harboured 95.8% fewer microbes on their surface than untreated products. Similar studies have also been carried out in a cooked meat processing unit and care home facility. This growing evidence base demonstrates how using BioCote protected products can inhibit the growth of a broad spectrum of microbes contamination, resulting in cleaner and more hygienic products.



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Antimicrobial Switches - 8500 Rocker Switches - Miniature

- Miniature rocker switch
- Ratings up to 15A, 250Vac
- High inrush tolerance
- Single & double pole in same body size
- Illuminated & non-illuminated
- Matching indicators
- Industry standard panel cut-out
- Rotary and push button actuator options
- BioCote antimicrobial option
- Panel cut out: 19.3 x 12.9

10(6)A 250Vac T125 IE4 (non lit types)
6(4)A 250Vac T125 5E4 (50,000 Operations)
10(6)A 250Vac T100 (lit types)

UL CSA 15A Non Ind 250Vac, 14A Ind 250Vac, 10A 277Vac
UL CSA 250Vac 1/2hp, 125Vac 1/4hp
UL 105°C, (non lit) **file E45221, CSA file LR10990**

In house test **Inrush 85A to EN61058-1 & 10A 24Vdc**

RoHS **RoHS compliant**

BioCote **BioCote antimicrobial additive. Independently verified.**

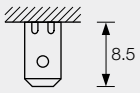
3mm contact gap.
Technical data on pages 4 & 5 (switches), 6 (indicators).

H 8550 V B--- B

TERMINAL | FUNCTION | ROCKER | BODY | PRINT, COLOUR, VOLTAGE ETC | BioCote

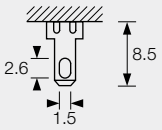
TERMINAL

H



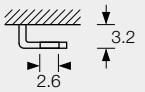
4.8 x 0.8

K



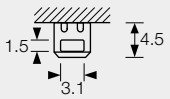
2.8 x 0.8

L



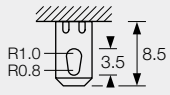
2.8 x 0.8
Right angle version of K terminal available on 8500 only

R



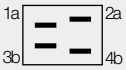
4.8 x 0.8

T



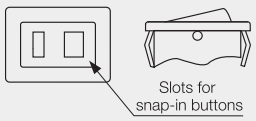
Solder

FUNCTION

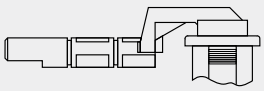
Approvals & ratings vary with function	 ON OFF Switches are ON when pressed over terminal 1
8500	 ON - OFF Single pole (Uses terminals 1a & 2a)
8503	 ON (lit) - OFF Single pole
8550	 ON - OFF Double pole
8553	 ON (lit) - OFF Double pole
8580 Available with H terminals only	 Indicator

ROCKER

H Slotted for custom caps

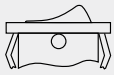


R Semi-rotary (not lit)



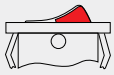
D Paddle lever (not lit)

V Curved (not lit)



V Curved (lit)

X Two colour (not lit)



A Softline lens

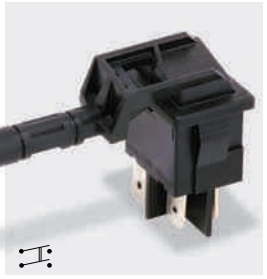
P Push button operation (8500 only)
See drawing opposite

H8500VB ---
T8500VB ---

H8550VB ---
T8550VB ---

H8550HB ---
T8550HB ---

H8550XB ---
T8550XB ---



H8550RB Semi-rotary
A splash proofing option

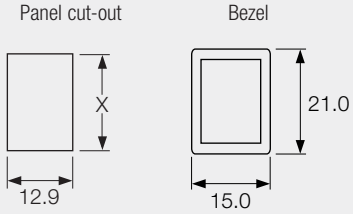
H8500PO ---
Pushbutton option

H8553VB ---
T8553VB ---

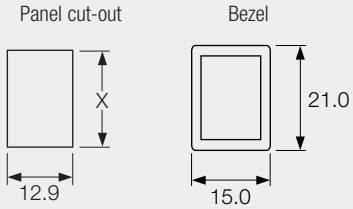
H8580AB ---

BODY

B
Standard body with terminal barrier



BC
Body without terminal barrier



Dimensions for snap-in fixing

Panel thickness	Dim X
0.75-1.25	19.1/19.2
1.25-2.00	19.3/19.4
2.00-3.00	19.7/19.8

Cut-outs must be punched in the direction of insertion

OPTIONS

Finish
Matt finish only.

Colour
Call sales for custom colours.
A full range is available for large orders.

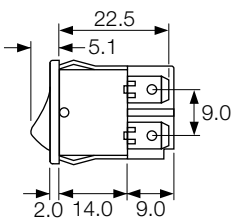
Legend printing
Select from the examples or call sales for custom legends.

Lamp voltage
Call sales for details of available voltages.

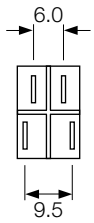
Protective cover L167
Snaps on to bodies with V or X style rockers and A lens but reduces panel thickness by 0.8mm.

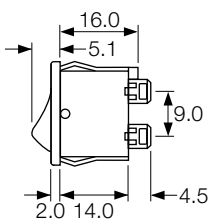
BiCote Antimicrobial Additive
Moulded components have antimicrobial properties using BioCote silver ion technology.

DIMENSIONS (mm)

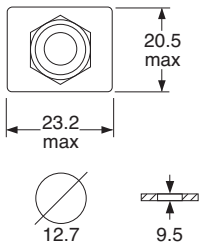


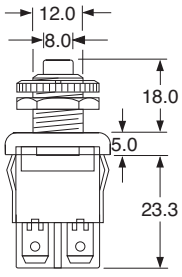
"B" body with barrier for H, T and K terminals





"BC" body w/o barrier primarily for L or R terminals (can be used for all terminals)





'PO' Actuator and body - push button function (8500 only)

Examples of printing

CL076

CL080

Antimicrobial Switches - 6050 DP Splash Resistant Switches

- Ratings up to 20A, 277V ac
- High in-rush (ON-OFF types)
- Positive switch action
- Distinctive styling
- Illuminated & non-illuminated
- Double pole
- BioCote antimicrobial option
- Panel cut out: 30.1 x 22.2mm

European 16(4)A 250Vac T125, 10A 400Vac T125

UL CSA 20A 277Vac, 250Vac 1½hp, 125Vac 1hp
UL 100°C, file E45221, CSA file LR10990

In house test

Inrush 150A* to EN61058-1
8(8)A 250Vac T125 5E4 on 6050 only
* applies to non-momentary types

RoHS

RoHS compliant

BioCote

BioCote antimicrobial additive. Independently verified.

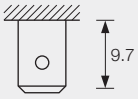
3mm contact gap with Positive Break switching.
Call sales for IP details on Twin units.
Technical data on pages 4 & 5 (switches), 6 (indicators).
Patent app.

C 6053 A L--- B

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC BioCote

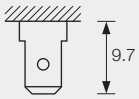
TERMINAL

C



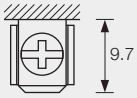
6.3 x 0.8

H



4.8 x 0.8

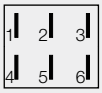
S



Screw & Clamp
N/A for assemblies
with 3 terminals in either pole

FUNCTION

Approvals & ratings vary with function
ON OFF Switches - ON when pressed over terminals 3 & 6

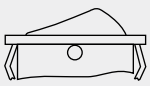


6050	ON - OFF	**6060**	ON - ON
6051	ON - OFF (momentary ON)	**6061**	ON - ON (momentary 1 side)
6052	ON - OFF (momentary OFF)	**6062** In house tests only	2 Circuit ON - ON
6053	ON - OFF Lit	**6066**	ON - ON (Single pole) Isolated light
6054	ON - OFF (momentary ON) Lit	**6067**	ON - ON Lit
6055	ON - OFF (Single pole) (momentary ON) Lit	**6068**	ON - ON 1pole ON - OFF Lit 1pole
6056	ON - OFF (Single pole) Isolated light	**6090**	ON - OFF 1pole ON - OFF Lit 1pole
6057	ON - OFF Isolated light	**6091**	ON - OFF (momentary ON) Lit
6058	ON - OFF (Single pole) Lit	**6092**	ON - OFF 1 pole ON - ON 1 pole Lit
6059	ON - OFF (Single pole) (momentary ON) Isolated light		

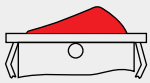
Circuits are Double Pole
unless described otherwise

ROCKER

A Softline
Matt

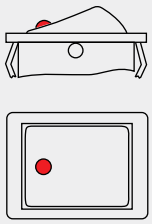


A Softline
Matt

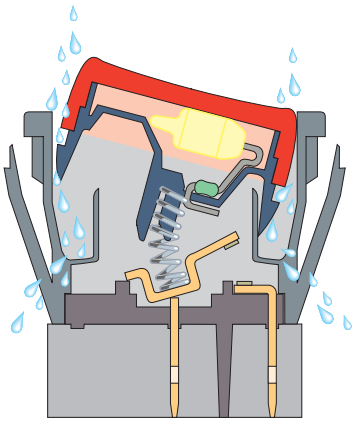


Lit

P Lit Window
Matt



Lit Window



Integral Splash Resistance
Current carrying parts are protected from moisture.
Droplets which may enter the switch are channelled out through ports in the switch body

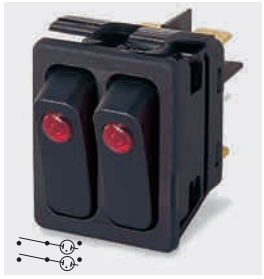
For IP65 see options below

C6050AL ---

C6053AL ---

C6053PL ---

C6000A/C6000AL



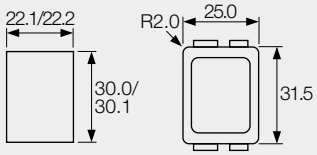
C6003P/C6003PL

C6003P/C6030AL

BODY

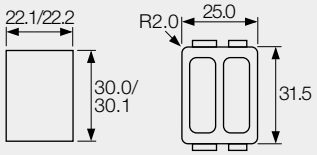
L Double pole

Panel cut-out * Bezel



L Twin units
Contact sales for information on splash resistance and IP ratings

Panel cut-out * Bezel



Cut-outs must be punched in the direction of insertion

OPTIONS

Finish Matt is standard.

Colour Call sales for custom colours.
A full range is available for large orders.

Legend printing Select from the examples or call factory for custom legends.

Lamp voltage Call sales for details.

Protective cover
The 6000 series is a water thru design.
For a higher level of sealing, a snap on cover is available (add suffix G72). This reduces panel thickness by 1mm.

Panel sealing washer W42 is available but reduces panel thickness by a further 0.8mm.
Covers are not suitable for momentary types.

IP Ratings Call the sales for details.

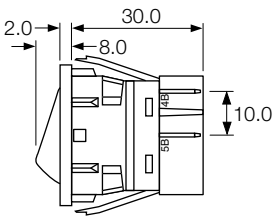
Terminal Link P1067 connects the poles of a double pole switch or twin unit.

Mounting orientation may affect IP rating.

BiCote Antimicrobial Additive
Moulded components have antimicrobial properties using BioCote silver ion technology.

For all options call sales.

DIMENSIONS (mm)



Panel thickness
L 0.75 to 3.0mm

* For cut-out details on momentary switches call sales

Terminal spacing - Poles 10.5 between centres

Examples of printing

EN1196

EN1197

Antimicrobial Switches - 1500 Standard & 1300 High Inrush

- Standard rocker switch
- Non-illuminated
- 1300 high inrush current
- Choice of switching circuits including 3 position
- Choice of bezel styles
- Choice of panel cut outs
- Matching indicator
- Single pole
- Splash resistant option
- BioCote antimicrobial option
- Panel cut out 'A' style: 27.3 x 12.3mm

1500 Series 16(4)A 250Vac T125

UL CSA 16A Non Ind 250Vac, (2 posn) 250Vac 1hp, 125Vac 1/2hp, (3 posn) 250Vac 1/2hp, 125Vac 1/4hp
UL 10A 14Vdc 'T' (1500 and 1510 only)
UL 85°C, file E45221, CSA file LR10990

In house test 10A 24Vdc

1300 series 16(6)A 250Vac T125 5E4 (50,000 Ops.)
150A Inrush to EN61058-1

UL CSA 20A 250Vac 1hp, 125Vac 1/2hp
UL 85°C, file E45221, CSA file LR10990

In house test 20A 24Vdc

RoHS compliant

BioCote antimicrobial additive. Independently verified.

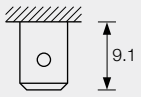
3mm contact gap except if marked µ.
Technical data on pages 4 & 5 (switches), 6 (indicators).

C 1300 A L--- B

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC BioCote

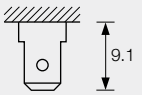
TERMINAL

C



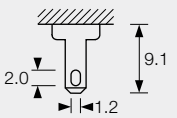
6.3 x 0.8

H



4.8 x 0.8*

K

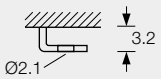


2.8 x 0.8*

T

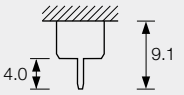
Solder

U



Right angle "T" solder terminal

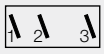
X



PCB 0.8Sq*
*N/A for 1300 series

FUNCTION

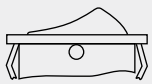
Approvals & ratings vary with function
ON OFF Switches - ON when pressed over terminal 1



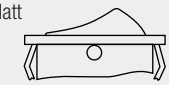
Standard 1500	High Inrush 1300 ('L' body only. Approvals apply to C & T terminals only)		
		ON - OFF	
1501 HP rating N/A		ON - OFF (momentary ON)	
1502 HP rating N/A		ON - OFF (momentary OFF)	
1510 µ HP rating N/A		ON - ON	
1511 µ HP rating N/A		ON - ON (momentary 1 side)	
1520 µ 125V & 250V 1/2 HP H terminal rated T100 only		ON - OFF - ON	
1521 µ HP rating N/A H terminal rated T100 only		ON - OFF - ON (momentary 1 side)	
1522 µ HP rating N/A H terminal rated T100 only		ON - OFF - ON (momentary 2 sides)	
0430 X terminal N/A		Indicator Technical data on page 6	

ROCKER

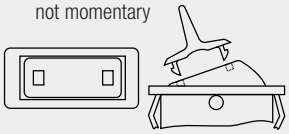
A Softline Matt



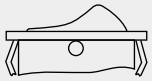
B Splash resistant (with Arcshield) Matt



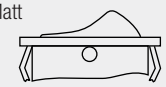
H Slotted (for custom Adaptors) not momentary



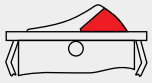
V Curved Matt or gloss



W Splash resistant (with Arcshield) Matt

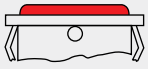


X Two colour Matt
ON - OFF only (not momentary)

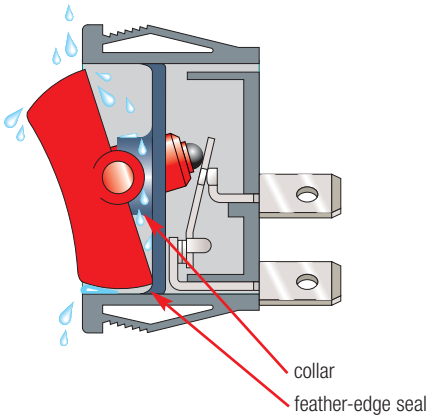


F Flat lens Gloss (0430 only)

A Softline lens Matt (0430 only)
as F but with raised profile



Splash Resistant



1500 W and B splash resistant options
Feather edge seals and a close fitting collar protect current carrying parts from moisture.
B option has Hytrel collar/seals for enhanced protection.


C1500AR ---
T1500AR ---


C1500AL ---
T1500AL ---


C1500XL ---
T1500XL ---


C1510AL ---
T1510AL ---

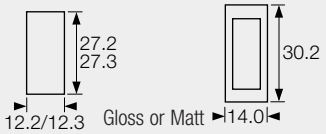

C1520AL ---
T1520AL ---


C0430AL ---
T0430AL ---

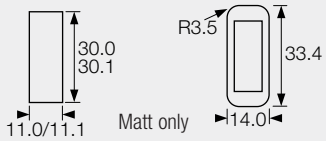
BODY

Panel cut-out * Bezel
Cut-outs must be punched in the direction of insertion

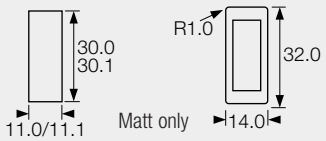
A



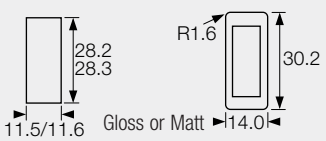
B



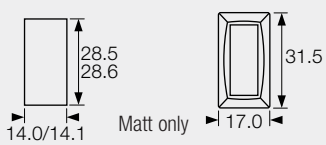
L



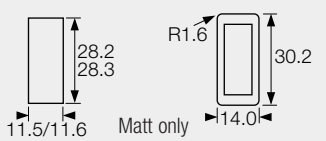
Q



R



T



OPTIONS

Finish Matt is standard.

Colour Call sales for custom colours.
A full range is available for large orders.

Legend printing Select from the examples or call sales for custom legends.

Lamp voltage Call sales for details.

Blanking plates A0434 - - Dummy units to fill unused panel holes.

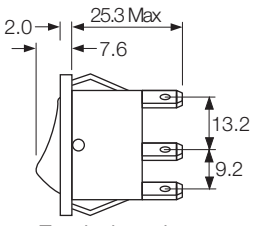
Protective cover
Snaps on to A, L, Q or T bodies
(add G74 as a suffix).
This reduces panel thickness by 1mm.

Panel sealing washer W46 is available for the same body sizes but reduces panel thickness by a further 0.8mm.
Covers are not suitable for momentary types.

BiCote Antimicrobial Additive
Moulded components have antimicrobial properties using BioCote silver ion technology.

For all options call sales.

DIMENSIONS (mm)



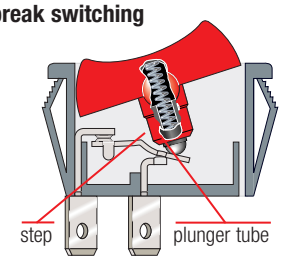
Panel thickness

A,Q	0.75 to 3.3mm
L,B,T	0.75 to 2.5mm
R	0.75 to 3.0mm

* For cut-out details on momentary switches call sales

1300 High inrush, positive break switching

The 1300 series mechanism ensures contact welds formed at switch-on are positively separated by the plunger tube acting directly on the step in the moving contact.



Examples of printing


EN602A


EN730


EN822

Antimicrobial Switches - 1550 Standard & 1350 High Inrush

- Standard rocker switch
- 1350/53 high inrush
- Choice of switching circuits including 3 position
- Push-on, solder and PCB terminals
- Choice of bezel styles
- Choice of panel cut outs
- Matching indicator
- Double pole
- Splash resistant option
- BioCote antimicrobial option
- Panel cut out 'A' style: 27.2 x 22.3mm

1550 Series 16(4)A 250Vac T125

UL CSA 16A 250Vac, (2 posn) 250Vac 1hp, 125Vac 1/2hp, (3 posn) 250 Vac 1/2hp, 125Vac 1/4hp. UL 85°C, file E45221, CSA file LR10990.

1350 series 16(4)A 250Vac T85 1E4 (10,000 Ops.)
1330 series 16(6)A 250Vac T125 5E4 (50,000 Ops.)
150A Inrush to EN61058-1.

UL CSA 20A 250Vac 1hp, 125Vac 1/2hp. UL 72Vdc 7A, 36Vdc 14A. UL 85°C, file E45221, CSA file LR10990.

BioCote antimicrobial additive. Independently verified.

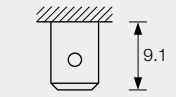
3mm contact gap except if marked µ.
Technical data on pages 4 & 5 (switches), 6 (indicators).

C 1553 A L --- B

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC BioCote

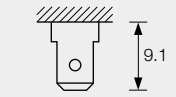
TERMINAL

C



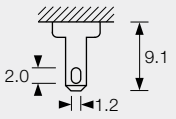
6.3 x 0.8

H



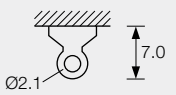
4.8 x 0.8*

K



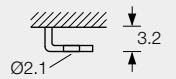
2.8 x 0.8*

T



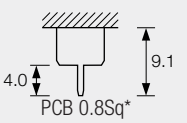
Solder

U



Right angle T Solder (Not DP)

X

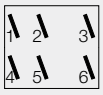


PCB 0.8Sq*

*Contact sales for details on 1350 series

FUNCTION

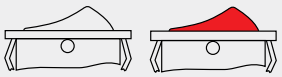
Approvals & ratings vary with function
ON OFF Switches - ON when pressed over terminal 1



Standard 1550	High Inrush 1350	
	Not W, X or B rocker	ON - OFF
1551 HP rating N/A		ON - OFF (momentary ON)
1552 HP rating N/A		ON - OFF (momentary OFF)
1553 Not W, X or B rocker	**1353** Not W, X or B rocker	ON - OFF Lit
1560 µ		ON - ON
1561 µ HP rating N/A		ON - ON (momentary 1 side)
1562 µ In house tests only		2 Circuit ON - ON
1570 µ 125V & 250V 1/2 HP H terminal rated T100 only		ON - OFF - ON
1571 µ HP rating N/A H terminal rated T100 only		ON - OFF - ON (momentary 1 side)
1572 µ HP rating N/A H terminal rated T100 only		ON - OFF - ON (momentary 2 sides)
1484 µ In-house tested to 10(3)A 250Vac (B rocker only)		3 position selective
1487 µ In-house tested to 10(3)A 250Vac (B rocker only)		3 position selective (Consult sales for other switch options)
0480 X terminal N/A		Indicator KEMA KEUR Technical data on page 6

ROCKER

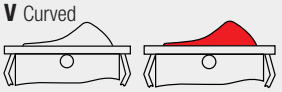
A Softline Matt



Lit (not momentary)

B Splash resistant Softline

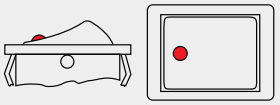
V Curved



Matt or gloss — Gloss only Lit (not momentary)

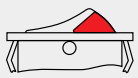
W Splash resistant Curved

P Lit window Matt

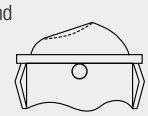


Lit (not momentary)

X Two colour Matt

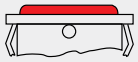


R Round



F Flat lens Gloss (0480 only)
(ON OFF only - not momentary)

A Softline lens Matt (0480 only)
as F but with raised profile



C1350AL ---

C1550XL ---

C1553PL ---

C1553RA ---
Shown with M614 bezel cover

C0480AL ---

Optional snap-in M441 barrier

C1553AA with M616 guard
Cut-out 22.0/22.1 x 29.4/29.5
Guard accepts "A" body only

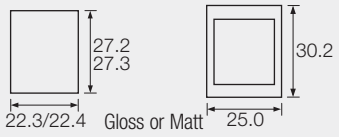
C0480RA ---
Shown with M614 bezel cover

BODY

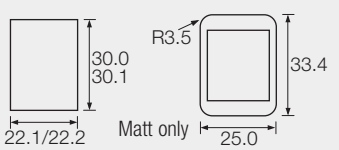
Panel cut-out * Bezel

Cut-outs must be punched in the direction of insertion

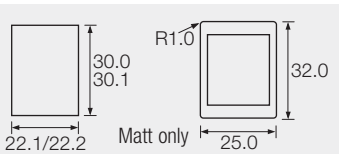
A



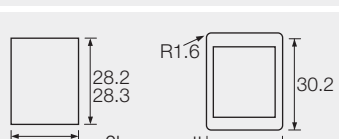
B



L

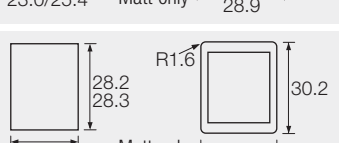


Q



R

T



T body unavailable with V Rocker

OPTIONS

Finish Matt is standard.

Colour Call sales for custom colours.
A full range is available for large orders.

Legend printing Select from the examples or call sales for custom legends.

Lamp voltage Call sales for details.

Blanking plates A0494 Dummy units to fill unused panel holes.

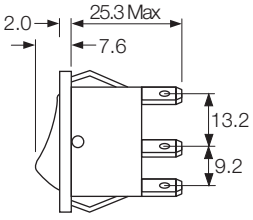
Protective cover (designed to IP65)
Snaps on to A, L, Q or T bodies (add G after body in cat no), This reduces panel thickness by 1mm.

Panel sealing washer W42 is available for the above body sizes but reduces panel thickness by a further 0.8mm.
Covers are not suitable for momentary types.

BiCote Antimicrobial Additive
Moulded components have antimicrobial properties using BioCote silver ion technology.

For all options call sales.

DIMENSIONS (mm)



Panel thickness

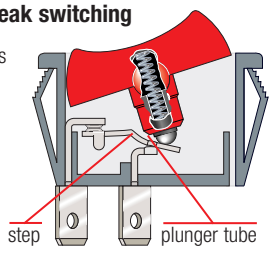
A,Q	0.75 to 3.3mm
L,B,T	0.75 to 2.5mm
R	0.75 to 3.0mm

* For cut-out details on momentary switches call sales.

Terminal spacing - Poles 10.2 between centres

1350 High inrush, positive break switching

The 1350 series mechanism ensures contact welds formed at switch-on, are positively separated by the plunger tube acting directly on the step in the moving contact.



Examples of printing

EN602A

EN730

EN822

Antimicrobial Switches - 8300 Push Button Switches

- Miniature push button
- 8A Inductive current rating
- Ratings up to 12(12)A, 250V ac (H suffix)
- Illuminated and non-illuminated
- Single and double pole
- Latching and momentary
- Slotted actuator for custom buttons
- Industry standard panel cutout
- BioCote antimicrobial option
- Panel cut out: 19.3 x 12.9

16(4)A 250Vac T85, 1E4 (10,000 Operations)
12(12)A 250Vac T105, 1E4 (10,000 Operations)
8(8)A 250Vac T105, 5E4 (50,000 Operations)
6(6)A 250Vac T125, 5E4 (50,000 Operations)

12A 250Vac DP, 13A 250Vac SP
250Vac 1hp, 125Vac 1/2hp
UL 85°C, file E45221, CSA file LR10990

In house test **10(10)A 250Vac**

RoHS **RoHS compliant**

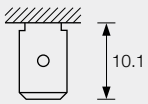
BioCote antimicrobial additive. Independently verified.

3mm contact gap.
Technical data on pages 4 & 5 (switches), 6 (indicators).

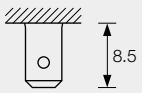
H 8353 J E H -- B

TERMINAL | FUNCTION | ACTUATOR | BODY | HIGHER RATING | PRINT, COLOUR, ETC | BioCote

TERMINAL

C


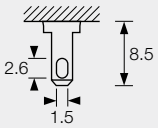
6.3 x 0.8

H


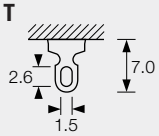
4.8 x 0.8

A

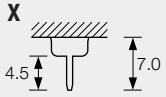

As "H" but right angle
4.8 x 0.8

K


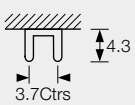
2.8 x 0.8

T


Solder

X


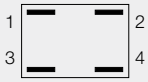
PCB 0.8 Sq

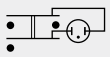
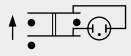
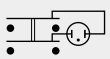
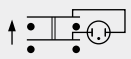
V


Dual pin PCB
(Call sales for mounting dims)

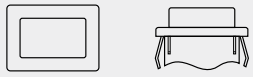
FUNCTION

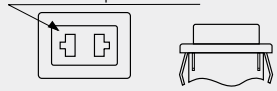
Approvals & ratings vary with function
Single pole switches use terminals 1 & 2 (& 3)

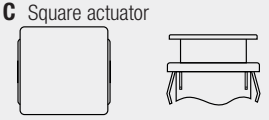


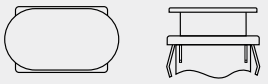
8300	ON - OFF Single pole	
8301	ON - OFF (momentary ON) Single pole	
8303	ON - OFF with light Single pole	
8304	ON - OFF (momentary ON) with light Single pole	
8350	ON - OFF Double pole	
8351	ON - OFF (momentary ON) Double pole	
8353	ON - OFF with light Double pole	
8354	ON - OFF (momentary ON) with light Double pole	
8355	ON - OFF Single pole Isolated light - switched C, E & M actuators only	
8356	ON - OFF Single pole Isolated light - unswitched C, E & M actuators only	

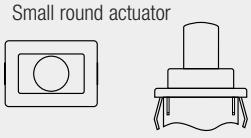
ACTUATOR

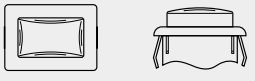
A Standard actuator


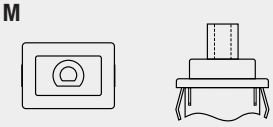
H Slotted for custom caps
Slots for snap-in buttons


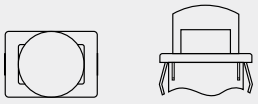
C Square actuator


E Radiused actuator


F Small round actuator


J Smooth curved actuator


M


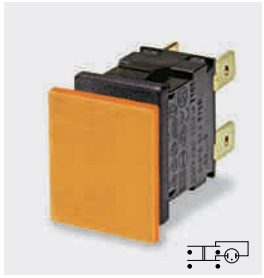
D Large round actuator


All actuators except H available lit

H8350AB ---
T8350AB ---

H8353JE ---
T8353JE ---

H8353EB ---
T8353EB ---



H8353CB ---
T8353CB ---

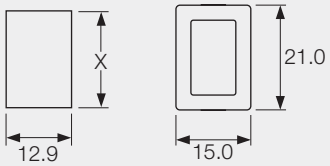
H8350DB ---
T8350DB ---

H8350HB ---
Example of button

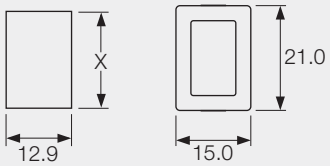
BODY

Panel cut-out Bezel
Cut-outs must be punched in the direction of insertion

B Standard body



E Softline style body with radiused bezel



Dimensions for snap-in fixing

Panel thickness	Dimension X
0.75-1.24	19.1/19.2
1.25-1.99	19.3/19.4
2.00-3.00	19.7/19.8

X and V PCB terminals.
Additional dummy terminals may be supplied for extra support.

OPTIONS

H
12(12)A 250Vac switch rating

Finish
Matt finish standard except on J and D actuators which are gloss

Colour
Call sales for custom colours
A full range is available for large orders

Legend printing
Select from the examples or call sales for custom legends

Special buttons
Some of the many options are shown
Call sales for the full range

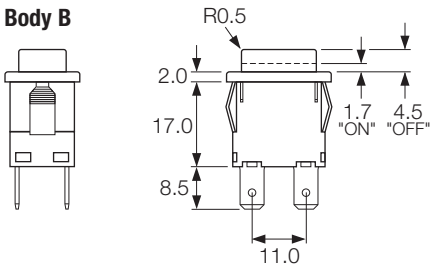
L167 Protective cover
(designed to IP65)

Snaps on to switch bodies fitted with "A" or "J" style actuators but increases effective panel thickness by 0.8mm

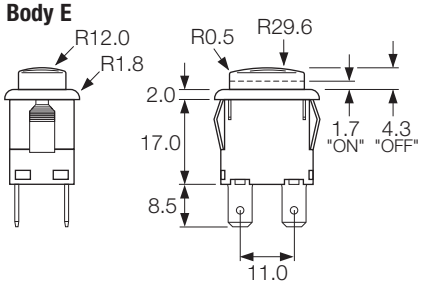
BiCote Antimicrobial Additive
Moulded components have antimicrobial properties using BioCote silver ion technology.

DIMENSIONS (mm)

Actuator A
Body B



Actuator J
Body E



Spacing between centre of terminals 1 & 3 or 2 & 4 is 10.0mm

Examples of printing

EN1153

EN1152

CERTIFICATE OF EFFICACY

Certificate No. 1017261.216/5966
Customer Ref. 50/563

SAMPLE DETAILS **DATE RECEIVED** 13/09/2011

ELEKTRON

METHOD: Determination of Antibacterial Activity using Test Based on ISO 22196

DATE ANALYSED 21/09/11 **DATE REPORTED** 23/09/11

RESULTS (as cfu cm^2)

SAMPLE	SPECIES	REDUCTION (%)
RE07 + B65193	E.coli	>99.89%
B040CL01 + B65193	E.coli	>99.89%
RE07 + B65193	MRSA	>99.90%
B040CL01 + B65193	MRSA	>99.90%

The above data shows the difference in the population following contact with the surface of the samples listed for 24 hours at 35^0C under RH of 95% relative to initial population

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Technical Manager
Lesley Taylor

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Press Information

Arcolectric partners with BioCote to develop unique range of antimicrobial switches

Elektron Technology plc, owner of the Arcolectric brand, has signed a partnership agreement with BioCote Ltd to develop the world's first antimicrobial equipment switches.

BioCote's silver ion technology will be incorporated into Arcolectric's switch products at the time of manufacture to provide proven, built-in antimicrobial protection against a wide range of microorganisms, including bacteria, mould, and viruses for the expected lifetime of the product. Initially Arcolectric will focus on incorporating the technology into five of its most popular switches and switch covers, with the potential to expand usage across its full product range and other Elektron Technology plc branded products going forward.

The BioCote antimicrobial protection reduces levels of microbes on surfaces by up to 99.99%. Laboratory tests have also repeatedly demonstrated the ability of BioCote protected surfaces to inhibit the growth and formation of moulds and yeast. Arcolectric's switches are already sold into a wide range of industries including healthcare, laboratory science, education, catering, leisure and other 'high traffic' public places.

“Component parts, such as a switch, are often the first contact point for a user when they interact with a product,” comments Stuart Hutchings, Marketing Manager, Arcolectric.“ More and more of our component parts are now being used for ‘high traffic’ applications where bacteria management becomes an issue. BioCote’s innovative technology helps us to overcome this issue, and offer our customers a new advance in switches.”

Graham Harvey from BioCote said: “We’re pleased to partner with Arcolectric to pioneer a new application for our proven silver ion technology. Coupled with good user hygiene practices, such as hand washing and cleaning routines, Arcolectric’s unique antimicrobial components will deliver highly effective, safe, long lasting product protection.”

Arcolectric has undergone a rigorous R&D and testing process. All BioCote protected products are regularly validated and quality control tested to ISO 22196:2007 where applicable, in an independent laboratory. Only products that demonstrate over a 95% reduction in bacteria are allowed to use the BioCote brand as a guarantee of superior antimicrobial performance.

BioCote Ltd has carried out a number of environmental trials in hospitals, food processing and care homes to scientifically prove BioCote protected products are as effective in situ as in laboratory testing, consistently reducing levels of bacterial contamination in the environment by over 95%.

- ENDS -

Arcolectric
Elektron Technology plc
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KT8 2RF
Tel: +44 (0)20 8979 3232
Email: europe@elektron-technology.com
Web: www.arcolectric.com

Press Information

Arcolectric pioneers brand new range of antimicrobial switches

Arcolectric, an Elektron Technology plc brand, today announces a unique new range of antimicrobial switches launched as part of an exclusive partnership with BioCote Ltd, a leading provider of evidence-based antimicrobial technology.

Arcolectric's best selling ranges of standard and miniature rocker switches, push button switches, double pole splash resistant switches and splash/dust covers will be manufactured with BioCote's silver ion technology during the moulding process moulded to produce the world's first antimicrobial electronic components. The antimicrobial ranges present OEMs with a distinctive new feature which offers a key point of end equipment differentiation and significantly enhances the benefits to the end user or the product.

Integrating BioCote® at the point of manufacture provides in-built antimicrobial protection for the life span of the component part, reducing microbes including bacteria mould and fungi by up to 99.9%. Arcolectric's switches are already sold into a wide range of industries including healthcare, laboratory science, education, catering, leisure and other 'high traffic' public places.

“Arcolectric’s switches are already used for a wide variety of ‘high traffic’ consumer and industrial devices. Our partnership with BioCote ensures the surfaces of Arcolectric switches will help prevent the spread of microbes including viruses, mould and bacteria,” adds Stuart Hutchings, Marketing Manager, Arcolectric. “We anticipate a strong reaction from our customers to these significant enhancements to our best selling ranges.”

Five of Arcolectric’s best selling ranges will utilise BioCote’s technology at manufacture stage, with further plans to roll out this process in time, as demand increases:

- 1500 standard and 1300 high inrush rocker single pole switches
- 1550 standard rocker and 1350 high inrush double pole rocker switches
- 8500 and 8550 miniature rocker switches
- 8300 push button switches
- 6050 double pole and twin splash resistant switches
- Transparent splash/dust proof covers

Arcolectric has undergone a rigorous R&D and testing process for the launch of this range. All BioCote protected products are regularly validated and quality control tested to ISO 22196 where applicable, in an independent laboratory. Only products that demonstrate over a 95% reduction in bacteria are allowed to use the BioCote brand as a guarantee of superior antimicrobial performance.

BioCote has carried out a number of environmental trials in hospitals, food processing and care homes to scientifically prove BioCote protected products are as effective in situ as in laboratory testing, consistently reducing levels of microbial contamination in the environment by over 95%.

- ENDS -

Press Information

Arcolectric launches world's first range of antimicrobial switches

Further Information: Arcolectric
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