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appliance switches

indicator lamps

fuseholders

IEC sockets

arcolectric



Solutions for appliance & electronic applications

Catalogue 168
April
2003

this catalogue is available on CD
and on www.arcolectric.co.uk



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Arcolectric worldwide

Arcolectric Switches plc, established in 1932, specialise in the manufacture of appliance switches, indicator lights and fuseholders for every kind of product from computers to coffee machines and lighting to laser printers.

We have two fully integrated factories totalling 90,000 sq.ft. in Surrey, England, where we manufacture mouldings, springs, pressings and turnings. The majority of our product is assembled automatically.

Arcolectric also have purpose built factories in Shenzhen, China (42,000sq.ft) and Tunis, North Africa (30,000 Sq.ft.).

The Group has recently acquired Otehall Switches Ltd., a specialist manufacturer of high quality snap-action switches.

Arcolectric Switches plc and Otehall Switches Ltd are wholly owned subsidiaries of Arcolectric Holdings plc, a Public Company quoted on the Alternative Investment Market (AIM) in London.



contents

Approvals

The majority of Arcolectric products are covered by international approvals. These will assist you in obtaining worldwide approval of your own products.

Europe - The  ENEC mark replaces national approval marks for switches complying with product standard EN61058-1.

America - Switch approvals to UL1054.

Canada - Switch approvals to CSA C22.2 No.55-M1986.

Our North African and China factories are also approved by these authorities.

Quality Assurance Approval



We are a BSI Registered Firm to
BS EN ISO 9002: 1994. Certificate No: FM 14821.

Not all products are produced on site, such items are therefore not manufactured under this approval.

 Appliances bearing the  mark are able to circulate freely in Europe. Products in this catalogue, when fitted correctly, comply with the  requirement insofar as it relates to them.

Product from stock

For stock product availability please visit our website, call our sales office or contact your nearest agent or distributor, listed on the back of this catalogue.

Bankers

HSBC Bank plc,
56 High Street, Esher, Surrey, KT10 9RD.
Sterling Account No. 21148257 Sort Code: 40-20-26

HSBC Bank plc,
P.O. Box 181, 27-32 Poultry, London, EC2P 2BX.
U.S. Dollar Account No. 37038042 Sort Code: 40-05-15
Euro Account No. 39023138 Sort Code: 40-05-15

The Hong Kong and Shanghai Banking Corporation Limited,
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U.S. Dollar Account No. 600-833255
Hong Kong Dollar Account No. 600-833255-001

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8 - 29 rocker switches



30 - 33 slide switches



34 - 47 push switches



42 - 45 vandal resist switches



48 - 52 snap-action & safety switches



53 - 57 refrigerator switches



58 - 60 rotary switches



61 - 65 lever switches



66 - 78 indicators



79 - 81 IEC sockets



82 - 83 fuseholders



Production



Solutions

for appliance & electronic applications

6 Million Products

Every month we assemble over six million switches, indicator lights, fuseholders and IEC sockets.

5 Manufacturing Centres

Almost all component parts used in our products - mouldings, pressings, springs and turned parts, are manufactured in our own production centres, then assembled and tested fully automatically.

23 Automatic Assembly Machines

The great majority of our rocker, slide, push button and lever switches are assembled automatically.

52 Injection Moulding Machines

Working at pressures up to 80 tons, our mould shop delivers over 250 million components each year.

60,000 Miniature Springs

Some only a millimetre or so in diameter, are wound each hour. Every one will be measured and tested.

15 Power Presses

We manufacture over 200,000 contacts and terminals every hour.



effective

design

Automated Testing

Each assembly machine tests the electrical and mechanical function of every completed product.

8,000,000 turned parts

On site manufacture of our component parts ensures full control of our production.

Tooling - In-house

A fully equipped toolroom manufactures and maintains the jigs, press and mould tools we use each day.

Flexibility of response

Twenty-four hour running allows a positive response to customer requests and ensures a competitively priced finished product.

development

sampling

costing

production

distribution

support

Research & Development

Our designers will work with you to achieve practical solutions which satisfy your particular design criteria.

Arcolectric is the largest manufacturer of appliance switches in the UK.



Technical Information - Switches and Fuseholders

Most major technical information is shown on each specific product page, other details are grouped here for easy reference. Details shown here apply to most switches and fuseholders.

Snap-action switches (pages 42, 45 and 48-51), indicators (pages 66-78) and connectors (pages 79-81) have product specific information within the section.

MATERIALS

	MOST PRODUCTS	EXCEPTIONS
Body and actuator (opaque)	Nylon 6.6	8300V, 1900V, 0916V & 0911V bezels & actuators are stainless steel
Actuator (transparent)	Polycarbonate	0600 and 3900 actuators are plated brass
Current carrying parts	Copper Alloy	
Contact points	Silver Alloy	N/A for 0055/56, 0600/2, 0916-0920, 0017, 2000 & 3005/3006. Gold plated for 1100.

PROPERTIES

Electrical

Class II compliant	Confirmed	IEC Sockets
Electrical life (Operations)	>10k, many >50k	See relevant page for details
Contact resistance (switches) new condition	<100mΩ (at 12Vdc,1A)	For 1100 & 2000 call factory
Contact resistance (fuseholders) new condition	5mΩ (average)	
Insulation resistance	>20mΩ	
Dielectric strength:		
across open contacts	>1kV	
between poles	>3kV	
between live parts and accessible metal	>4kV	
Comparative Tracking Index (CTI)	>250	
Temperature rise (terminals) at end of rated life	max 30°C (UL 1054), max 55°C (EN 61058-1)	

PROPERTIES

Physical

Humidity resistance at 91-95% relative humidity (to subsequently comply with requirements of the Dielectric strength test)	48hrs	
Impact resistance	>0.5Nm	
Storage temp. (1 year period)	<125°C	Some discolouration of terminals may occur
Flame retardancy	UL94V2	
Solderability to BS 2011 pt.2.1T - (with an iron)	6 secs at 350°C	
Angular movement ± 4° overall (where applicable)	38°	1250, 6000, 8500, 8550, 8600, 8650, 8800 - 26°
Force to operate	2.0N - 20.0N	Call factory for specific values
Fixing nut torque (where applicable)	1.0Nm (8.91 lb/in) nom.	Call factory for specific values

GENERAL INFORMATION

ALL SWITCHES

Heat and Fire resistance Category D.

Ingress Protection without cover is IP40.

Higher ratings where available will be shown on the relevant catalogue page.

ALL PRODUCTS

Solder terminals should not be fitted with "Push on", "QD" or "Fast on" type cable connectors.

Panel holes must be punched in the direction of insertion.

Items marked ♦ on the following pages are assembled automatically. This ensures the highest attainable quality at a competitive price.

All products should be applied, installed and maintained by the customer using competent persons in accordance with good electrical practice. Products should be tested by the customer in the application to ensure suitability. Special care should be taken not to expose switches to water, dust, corrosive chemicals, silicone, excessive solder flux, cyanoacrylate adhesives, severe impact, extremes of temperature, electrical supply voltage or load current in excess of the specified limits.

Transparent lenses on indicator lights and lit switches are moulded in polycarbonate, a material which is attacked by organic chemicals and animal or vegetable fats.

Please contact the factory for advice on these products.

For performance in accord with the stated ratings, switch actuators should be fully depressed and fully released during operation.

WEIGHTS OF OUR MOST FREQUENTLY SUPPLIED PRODUCTS, not including packaging.

Product	gms	Product	gms	Product	gms	Product	gms	Product	gms
0055, 0056	5.7/6.8	1048	2.8	1570	12.7	5500	7.1	8353	5.9
0305	32.9	1091FH	12.6	1584-1589	11.1	5503	7.8	8500	3.8
0333	4.5	1091FL	52.8	1700H	8.4	5567	14.3	8550	4.8
0345	8.9	1100	2.0	1750H	13.2	6050	13.58	8553	5.2
0340 sw only	7.12	1250SP	5.9	17500	25.6	6053	14.15	8600	3.5
0340K/P	25.0	1250DP	7.0	2000 2pos C SP	3.8	7000	10.4	8620	4.3
0430	5.5	1300	5.7	2000 2pos C DP	4.5	7050	12.3	8650	6.3
0589	3.5	1350	11.2	2000 5pos A SP	6.3	7053	12.9	8670	8.5
0711-1S	16.6	1500	5.7	2000 5pos A DP	7.3	8250	4.9	8800	2.9
0712-S	27.8	1520	6.6	T2225B	5.0	8300	4.0	9100	20.0
0717-1S	22.4	1550	11.2	2950	5.3	8350	5.0		
0900S/L	2.6/2.9	1553	11.8	3111	11.8	8350RP	34.0		

Splashproof & Dust Resistant options for Switches

Suitability

A large number of Arcolectric products have optional or designed-in resistance to moisture or dust.

For detailed IP ratings call the factory.

The suitability of these products for specific applications is subject to numerous factors including:

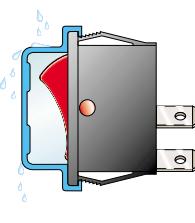
Mounting method and product orientation, air movement, pressure differential across the product, intensity of impinging liquid flow and application voltage.

Splashproofing does not imply total sealing, or resistance to corrosive atmospheres or substances.

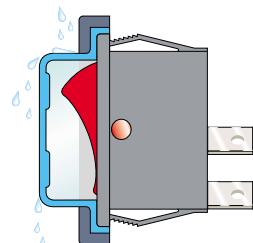
<p>Order code for splash/dust proofing options is shown under the illustration</p>	<p>Page 10</p> 	<p>Pages 12 & 14</p> 	<p>Pages 12 & 14</p> 	<p>Page 16</p> 	<p>Page 16</p> 
	<p>8500 Twin can be fitted with</p>  <p>L167 Push-on cover</p>	<p>8600 & 8620 can be fitted with</p>  <p>L167 Push-on cover</p>	<p>8650 & 8670 can be fitted with</p>  <p>L180 Push-on cover</p>	<p>R13 Single pole can be fitted with</p>  <p>L188 Push-on cover</p>	<p>R13 Double pole can be fitted with</p>  <p>L188 Push-on cover</p>

<p>Order code for splash/dust proofing options is shown under the illustration</p>	<p>Page 18</p> 	<p>Page 20</p> 	<p>Page 22</p> 	<p>Page 24</p> 	<p>Page 26</p> 
	<p>6000 has integral water-thru feature and</p>  <p>G Snap-on cover option</p>	<p>1500 and 1300 available with W or B Splashproof rockers or</p>  <p>G Snap-on cover</p>	<p>5503 can be fitted with</p>  <p>G Snap-on cover</p>	<p>6050 has integral water-thru feature and</p>  <p>G Snap-on cover option</p>	<p>1550 and 1350 can be fitted with</p>  <p>G Snap-on cover</p>

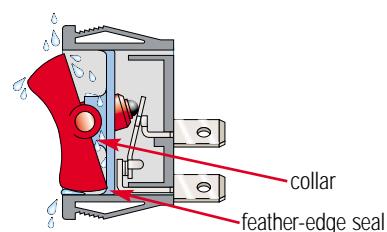
How they work



L167, L180, L188
Push-on splashproof/
dustproof covers
for rocker/push switches



G
Snap-on splashproof/
dustproof cover & bezel
for rocker switches



1500 W and 1500 B splashproof rockers
have internal feather edge seals and a close fitting collar to protect current carrying parts from moisture
Option B has Hytrel moulded collar/seals for enhanced protection

The right system

The fitting of external covers or panel sealing washers will normally alter standard panel acceptance dimensions.

The fitting of external covers is not recommended for momentary (spring return) rocker or lever switches.

In all instances applications should be discussed with the factory. We will advise you on the best system for your application.

For full product details, dimensions and ratings refer to the catalogue page shown in the photograph (not to scale).

Order code for splash/dust proofing options is shown under the illustration



Page 34

8300
can be fitted with



L167
Push-on cover



Page 41

0916V
has integral seal



Page 43

1900
has integral seal



Page 44

8300V
has integral seal



Page 45

0911V
has integral seal

Order code for splash/dust proofing options is shown under the illustration



Page 55

3005
splashproof design



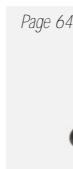
Page 56/57

3100 and 3141
splashproof design



Page 62

3900 and 3950
have integral O-ring seal
and can be fitted with



Page 64

1700 and 1750
can be fitted with



Page 61

0600
can be fitted with



M539 or M1080
neck seal or cover



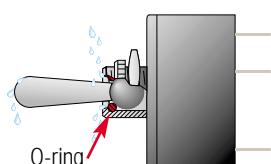
M331, M539, M1080
covers or neck seals



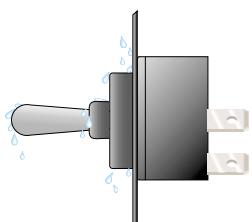
M331, M539, M1080
covers or neck seals



Water-thru
Integral
splashproof
system (pat app.)



O-ring
Integral seal
for 3900 series
metal lever switches



Covers & Neck seals
(with nut fixing)
for lever switches

8800 Thinline Rocker Switches 10A 250Vac



15

10(6)A 250Vac T100
6(2)A 250Vac T100 5E4 (50,000 Operations)
Inrush 50A to EN60065:1998



UL CSA 15A 250Vac (Twin unit is 10A 250Vac)
UL CSA 125Vac 1/2hp
UL 100°C, file E45221, CSA file LR10990

In house test 10A 28Vdc

3mm contact gap
Technical data on pages 4 & 5

H 8800 V A - - -
TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, ETC

► TERMINAL	► FUNCTION	► ROCKER
H 9.7 4.8 x 0.8	 Switches are ON when pressed over terminal 1	V Curved
8800 Call factory for ratings & dimensions	 ON - OFF Single pole	
8801 Call factory for ratings & dimensions	 ON - OFF (momentary ON) Single pole	
8802 Call factory for ratings & dimensions	 ON - OFF (momentary OFF) Single pole	
8800/8800	 Switches are ON when pressed over terminals 1 or 3	
	 ON - OFF Twin (Single pole)	

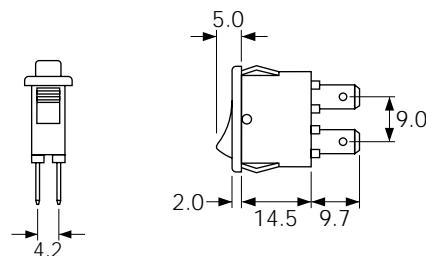


BODY		OPTIONS
Panel cut-outs	Flange	
Cut-outs must be punched in the direction of insertion		
A Single pole		
<p>*Optional profile for orientation</p>	Finish Matt finish only Colour Call factory for custom colours. A full range is available for large orders Legend printing Select from the examples or call the factory for custom legends	
A Single pole - Twin		
<p>*Optional profile for orientation</p>		
Panel thickness	Dim 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	

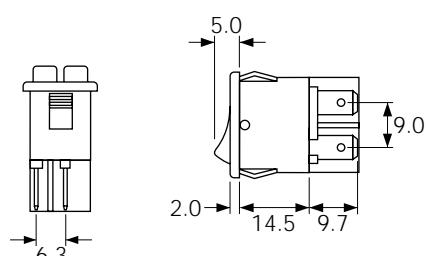
BODY		OPTIONS
Panel cut-outs	Flange	
Cut-outs must be punched in the direction of insertion		
A Single pole		
<p>*Optional profile for orientation</p>	Finish Matt finish only Colour Call factory for custom colours. A full range is available for large orders Legend printing Select from the examples or call the factory for custom legends	
A Single pole - Twin		
<p>*Optional profile for orientation</p>		

Dimensions (mm)

8800VA (H terminals shown)



8800V/8800VA (H terminals shown)



Examples of printing



CL132

CL133

8500 Rocker Switches - Miniature

10A 250Vac Single & Double Pole



10(6)A 250Vac T125 (non lit types)

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

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, file E45221, CSA file LR10990



Inrush 85A to EN61058-1 & 10A 28Vdc

3mm contact gap

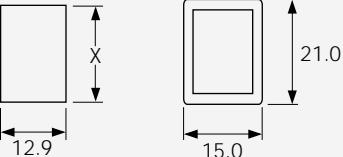
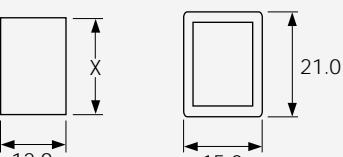
Technical data on pages 4 & 5 (switches), 66 (indicators)

H 8550 V B ---

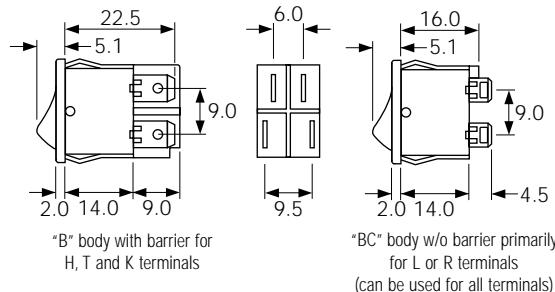
TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

► TERMINAL	► FUNCTION	► ROCKER
H 4.8 x 0.8	Approvals & ratings vary with function 8500 ♦ 8503 ♦ 8550 ♦ 8553 ♦ 8580	1a 2a 3b 4b On Off Switches are ON when pressed over terminal 1 ON - OFF Single pole (Uses terminals 1a & 2a) ON - OFF - Lit Single pole ON - OFF Double pole ON - OFF - Lit Double pole Indicator
K 2.8 x 0.8		H Slotted for custom adaptors Slots for snap-in buttons R Semi-rotary D Paddle lever (8500 only) (not lit) V Curved (not lit) V Curved (lit) X Two colour (not lit) A Softline lens
L 2.8 x 0.8 Right angle version of K terminal available on 8500 only		
R 4.8 x 0.8		
T Solder		



BODY		OPTIONS
Panel cut-outs	Flange	
Cut-outs must be punched in the direction of insertion		
B	Standard body with terminal barrier	
		Finish Matt finish only Colour Call factory for custom colours A full range is available for large orders Legend printing Select from the examples or call the factory for custom legends Lamp voltage Call factory for details of other available voltages Protective cover L167 (designed to IP65) Snaps on to bodies with V or X style rockers and A style lens but reduces panel thickness by 0.8mm
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	

DIMENSIONS (mm)



Terminal spacing between 1a & 3b - 6.0, between 2a & 4b - 9.5

Examples of printing



8600 Rocker Switches - Miniature

10A 250Vac Single & Double Pole



10(4)A 250Vac T90 (unless noted below)



UL CSA See ratings below

UL 65°C, file E45221, CSA file LR10990

In house test

Inrush 25A to EN61058-1 & 10A 28Vdc

3mm contact gap except where marked μ

Technical data on pages 4 & 5 (switches), 66 (indicators)

H 8653 V B ---
 TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

► TERMINAL	► FUNCTION	► ROCKER
H 4.8 x 0.8	Approvals & ratings vary with function On Off Switches are ON when pressed over terminal 3 8600 ♦ 10(4)A 16A 250V, 10A 277V 8650 ♦ 10(4)A 10A 277V 8601 ↑ 6(1)A 16A 250V, 6A 277V 8651 ↑ 6(1)A 6A 277V 8602 ↓ 10A 16A 250V, 10A 277V 8652 ↓ 10(4)A 6A 277V N/A	V Curved V Curved (lit) D Paddle lever (Single pole non-lit only) F Flat Indicator only (Single pole) Y 3.5 x 0.8 Solder X 3.7 ↑ 5.3 PCB* 0.8 Sq T 3.5 x 0.8 Solder H 4.8 x 0.8
Y 1.3 x 0.8 Contact the factory for details NEW	ON - OFF (momentary 1 side) 6A 277V ON - ON 6(1)A 10A 277V ON - OFF (momentary 1 side) 6A 277V ON - OFF - ON See page 14 Indicator 8630	8610 ♦ 6(1)A 10A 277V 8660 ♦ 6(1)A 10A 277V, 1/2HP 277V 1/2HP 250V, 1/4HP 277V 8611 ↑ 6A 277V 8661 ↑ 6A 277V 8620 μ See page 14 8670 μ See page 14
"Switches with "X" terminals are supplied without terminal barriers		



H8600VB ---
 T8600VB ---



H8600VB ---
 T8600VB ---



H8630FB ---
 T8630FB ---



H8650VB ---
 T8650VB ---



H8660VB ---
 T8660VB ---



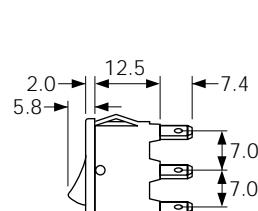
H8653VB ---
 T8653VB ---

BODY		OPTIONS
Panel cut-outs	Flange	
Cut-outs must be punched in the direction of insertion		
B Single pole		
	X	
Single Pole 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	
B (Double Pole) with terminal barrier		
BC (Double Pole) w/o terminal barrier		
	X	
Double Pole 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	

Finish	Matt finish only
Colour	Call factory for custom colours A full range is available for large orders
Legend printing	Select from the examples or call the factory for custom legends
Lamp voltage	Call factory for details of other available voltages
Blanking plate A8634FB	Dummy unit to fill unused panel holes Single pole size only
Protective covers	
L167 for SP	
L180 for DP	(designed to IP65) Snap on to bodies with V rocker or F lens but reduce panel thickness by 0.8mm. Not for use with momentary types
Single Pole options	Most switches shown can have single pole switching in double pole bodies

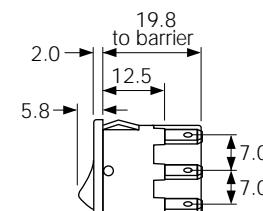
DIMENSIONS (mm)

Single pole



Terminals shown
are "H" 4.8 push on type

Double pole



Terminal spacing
10.2 between pole centres

For 8620 and 8670 see page 14

Examples of printing



CL076



CL080



CL141



CL142



CL059



CL058

8620 & 8670 Rocker Switches - 3 Positions

10A 250Vac



10(4)A 250Vac T90



UL CSA 15A 277Vac (Single pole)
UL CSA 250Vac 1/2hp (Single pole)
UL CSA 125Vac 1/4hp (Single pole)
UL CSA 10A 277Vac (Double pole)
UL CSA 125/250Vac 1/2hp (Double pole)
UL CSA 277Vac 1/2hp (Single & Double pole)
UL 90°C, file E45221, CSA file LR10990

In house test

10A 28Vdc

μ contact gap

Technical data on pages 4 & 5



H8620VB - - -
T8620VB - - -



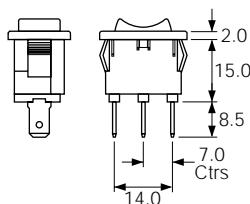
H8670VB - - -
T8670VB - - -

H 8620 V B - - -
TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, ETC

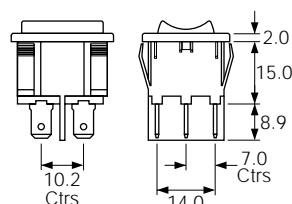
► TERMINAL	► FUNCTION	► ROCKER	► BODY	► OPTIONS
H 4.8 x 0.8	 8620 ON - OFF - ON Single pole	V Curved 	B Single pole Panel thickness 0.75-1.24 1.25-1.99 2.00-3.00	Finish Matt finish only Colour Call factory for custom colours. A full range is available for large orders Legend printing Select from the examples or call factory for custom legends Protective covers IP65 L167 for SP L180 for DP (designed to IP65) Snaps on to body but reduces panel thickness by 0.8mm
T Ø 2.15 Solder	 8670 ON - OFF - ON Double pole		B Double pole Panel thickness 0.75-1.24 1.25-1.99 2.00-3.00	
X 4.0 PCB 0.8sq Switches with X terminals are supplied without terminal barriers				Cut-outs must be punched in the direction of insertion

Dimensions (mm)

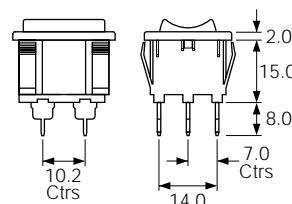
8620VB (H terminals shown)



8670VB (H terminals shown)



8670VB (X terminals shown)



Examples of printing



1250 Rocker Switches 10A 250Vac

15

10(6)A 250Vac T100
6A 400Vac T100
1A 30Vdc

UL CSA 10A 250Vac
UL CSA 16A 250Vac Resistive
UL CSA 125Vac 1/2hp
UL CSA 1A 30Vdc
UL 100°C, file E45221, CSA file LR10990

In house test

Inrush 75A to EN61058-1 & 10A 28Vdc

3mm contact gap

Technical data on pages 4 & 5



C1250AP - - -



C1250AN - - -

C 1250 A P - - -
TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, ETC

TERMINAL
C 6.3 x 0.8
X PCB 0.8sq (N body only)

FUNCTION
1250 ♦ On when pressed over terminal 1 2a — 2 1a — 1 ON - OFF Double pole Poles are 9.0mm between centres.
1250SP ♦ On when pressed over terminal 1 1a — 1 1a — 1 ON - OFF Single pole

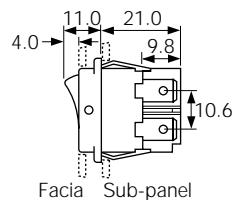
ROCKER
A Curved Shown in N body

BODY
N Panel cut-out Sub-panel Facia Flange 12.4/ 12.5 23.8 nom 29.5 13.1 nom R3.5 13.0
Panel thickness Dim X 0.75-1.24 26.1/26.2 1.25-1.99 26.3/26.4 2.00-3.00 26.7/26.8
P Panel cut-out 27.2/ 27.3 12.4/ 12.5 29.5 15.0
Panel thickness 0.75-3.00

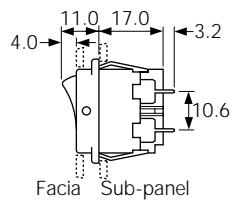
OPTIONS
Finish Matt finish only
Colour Call factory for custom colours. A full range is available for large orders
Legend printing Select from the examples or call factory for custom legends

Dimensions (mm)

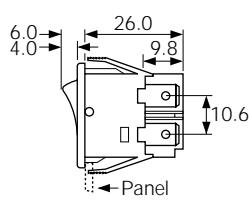
1250AN (C terminals shown)



1250AN (X terminals shown)



1250AP (C terminals shown)



Examples of printing



CL085



CL086

R13 Round Rocker Switches 6A 250Vac



SP 6A 250Vac T85,

DP 10(4)A 250Vac T85



UL CSA SP 10A 125Vac & 6A 250Vac (For 16A call the factory)

UL CSA DP 8A 125/250Vac

UL 85°C, file E67774(S) CSA file LR45128

Single pole has μ contact gap

Technical data on pages 4 & 5

Standard products

Are supplied with the body and rocker colour, print & lamp voltage shown in the product illustration and description

R13 112A AAA

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

PRODUCT DETAILS



1 2
SP ON - OFF μ

Cat no.
R13 112A AAA



1 2
SP ON - OFF μ

Cat no.
R13 112A AAB



1 2 3
SP ON - OFF μ
Lit 230V

Cat no.
R13 112B NAA



1 2 3
SP ON - OFF μ
Lit 230V

Cat no.
R13 112B NAB



1 2
DP ON - OFF

Cat no.
R13 244A AAA



1 2 3
SP ON - OFF μ
Lit 230V

Cat no.
R13 112B NAC



1 2 3
SP ON - ON μ

Cat no.
R13 112C AAA



1 2 3
SP ON - OFF - ON μ

Cat no.
R13 112D AAA



1 2
SP ON - OFF μ
(Momentary On)

Cat no.
R13 208F AAA*

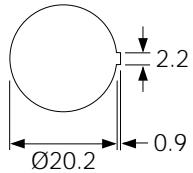


1 2
DP ON - OFF
Lit 230V

Cat no.
R13 244B NAA

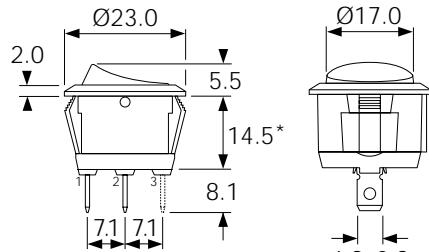
DIMENSIONS (mm)

Panel cut-out



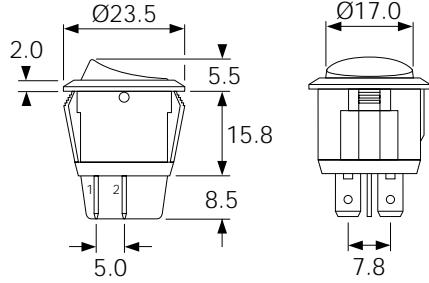
Snap fixing into panel thickness up to 3.0

Single pole



* R13 208F has 12.5mm deep body

Double pole



R13 Round Rocker Switches 6A 250Vac



6A 250Vac T85

UL CSA 10A 125Vac & 6A 250Vac (For 16A call the factory)
UL 85°C, file E67774(S) CSA file LR45128

Single pole has μ contact gap
Technical data on pages 4 & 5

Special products

Are made to order and can be supplied with a range of body and rocker/lens colours, print & lamp voltage

Call the factory for availability to your special requirements

R13 112A2 - -

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

PRODUCT DETAILS		PANEL CUT-OUT (mm)	
	1 2 SP ON - OFF μ Bright colour ON signal Cat no. R13 112A2 - -		For R13 112A2 R13 112B2 R13 112LP R9 92B
	1 2 3 SP ON - OFF μ Lit Window Cat no. R13 112B2 - -		Snap fixing into panel thickness up to 3.0
	1 2 3- SP ON - OFF μ Paddle tip has red LED Cat no. R13 112LP - -		
	1 . 3 Indicator light Cat no. R9 92B - - - approvals - contact the factory		For R13 211A R13 211C
	1 2 SP ON - OFF μ R13 211A - - - 1 2 3 SP ON - ON μ R13 211C - - -		* Dependent on panel thickness 0.75 - 3.0

UL, CSA only

6000 SP Splashproof Rocker Switches

16A 250Vac



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 (On - Off only)

20A 28Vdc

* applies to non-momentary types

6000 Switches feature "Arcshield" to hide visible switching arc
3mm contact gap with Positive Break switching

Call factory for IP details

Technical data on pages 4 & 5 (switches), 66 (indicators)

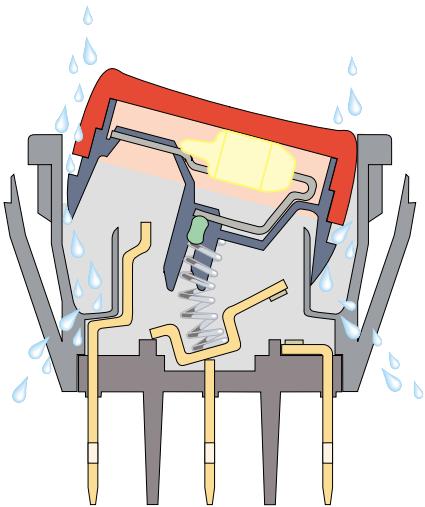
Patent app.

C 6003 A L ---

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

TERMINAL	FUNCTION	ROCKER
C	Approvals & ratings vary with function On Off Switches - ON when pressed over terminal 3	
	6000 ON - OFF	•
	6001 ON - OFF (momentary ON)	↑ • • ○
	6002 ON - OFF (momentary OFF)	↓ • • ○
	6003 ON - OFF Lit	• • ○
H	6008 ON - OFF Lit (Unswitched neutral)	• • ○
	6009 ON - OFF (momentary ON) Lit (Unswitched neutral)	↑ • • ○
	6010 ON - ON	• • •
S	6011 ON - ON (momentary 1 side)	↑ • •
	6030 Indicator	• • ○
For twin switches and double pole circuits see pages 24 & 25		

For IP65 see "options" below



Integral Splashproofing

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



BODY	
Panel cut-out **	Flange Cut-outs must be punched in the direction of insertion
L	

M

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

Mounting orientation may affect splashproofing

For all options call the factory

OPTIONS	
Finish	Matt is standard
Colour	Call factory 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 factory for details
Protective cover (designed to IP65)	The 6000 series is a water thru design. For a higher level of sealing, a snap on cover is available (add G after body code). This reduces panel thickness by 1mm.

R2.0

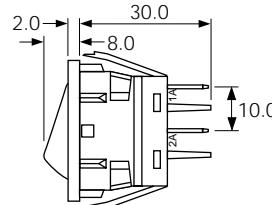
30.1 / 30.0

11.1 / 11.0

31.5

14.0

DIMENSIONS (mm)



Panel thickness
L 0.75 to 2.5mm

** For cut-out details on momentary switches call the factory

Examples of printing



EN1224



EN1223

1500 Standard & 1300 Hi Inrush Switches

150A to IEC65 and 16A 250Vac



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 85°C, file E45221, CSA file LR10990

Inrush 36A to EN61058-1 & 20A 28Vdc

1300 series 16(6)A 250Vac T125 5E4 (50,000 Ops.) ⓒ 150A Inrush to IEC 65,

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

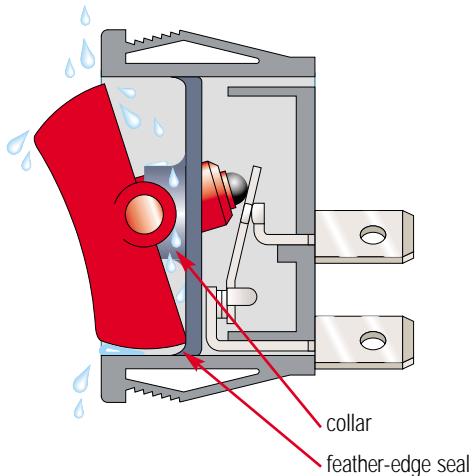
20A 28Vdc

3mm contact gap except if marked μ. Technical data on pages 4 & 5 (switches), 66 (indicators)

C 1300 A L ---
 TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

TERMINAL	FUNCTION	ROCKER
C	Approvals & ratings vary with function On Off Switches - ON when pressed over terminal 1	A Softline Matt
H	Standard 1500 ♦ 1300 ♦ Approvals apply to C & T terminals only	B Splashproof (with Arcshield) Matt
K	Hi Inrush 1501 HP rating N/A	H Slotted (for custom Adaptors) not momentary
T	1502 HP rating N/A	V Curved Matt or gloss
U	1510 ♦ μ HP rating N/A	W Splashproof (with Arcshield) Matt
X	1511 μ HP rating N/A	X Two colour Matt ON - OFF only (not momentary)
	1520 ♦ μ 125V & 250V 1/2HP H terminal rated T100 only	F Flat lens Gloss (0430 only)
	1521 μ HP rating N/A H terminal rated T100 only	A Softline lens Matt (0430 only) as F but with raised profile
	1522 μ HP rating N/A H terminal rated T100 only	
	0430 X terminal N/A Indicator Technical data on page 66	

Enhanced Splashproofing



1500 W and B splashproof options

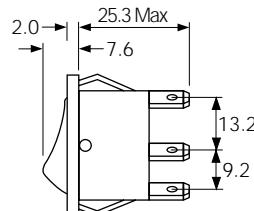
Feather edge seals and a close fitting collar protect current carrying parts from moisture.
B option has Hytrel collar/seals for enhanced protection.



	BODY
	Panel cut-out * Flange Cut-outs must be punched in the direction of insertion
A	
B	
L	
Q	
R	
T	

	OPTIONS
Finish	Matt is standard
Colour	Call factory 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 factory for details
Blanking plates A0434	-- Dummy units to fill unused panel holes
Protective cover	(designed to IP65) Screws on to A, L, Q or T bodies (add G after body in cat no). This reduces panel thickness by 1mm.
Panel sealing washer W46	Available for the same body sizes but reduces panel thickness by a further 0.8mm Covers are not suitable for momentary types.
Arcshield	Hides switching arc
<i>For all options call the factory</i>	

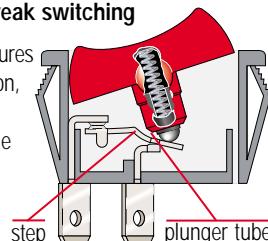
DIMENSIONS (mm)



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 the factory	

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



5500 Lit Rocker Switches - Single Pole 16A 250Vac



16(4)A 250Vac T85
10(3)A 250Vac T100, (12A 250Vac T125 for P rocker only)



UL CSA 15A 250Vac, CSA 16A Non Ind 250Vac
UL CSA 250Vac 1hp, 125Vac 1/2hp
UL 85°C, file E45221, CSA file LR10990

In house test

Inrush 24A to EN61058-1 & 20A 28Vdc

μ contact gap

Technical data on pages 4 & 5 (switches), 66 (indicators)

For Twin units repeat the order details for both the right and left sides

C 5503 A L ---
TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

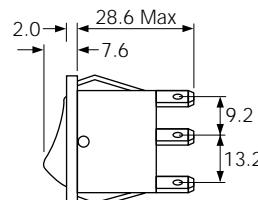
► TERMINAL	► FUNCTION	► ROCKER
C 6.3 x 0.8	Approvals & ratings vary with function On Off Switches - ON when pressed over terminal 3 5500 ♦ μ	A Softline (Matt only) Lit
H 4.8 x 0.8	5503 ♦ μ preferred option	P Lit window (Matt only) Lit
T Ø2.1 Solder	5508 μ for special applications	ON - OFF Lit Unswitched neutral



BODY	
Panel cut-out **	Flange Cut-outs must be punched in the direction of insertion
A	
B	
L	
Q	
R	
T	

OPTIONS	
Finish	Matt is standard
Colour	Call factory 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 factory for details
Blanking plate A0434 --(SP) A0494 -- (DP)	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.
<i>For all options call the factory</i>	

DIMENSIONS (mm)



Terminal spacing - Poles 10.8 between centres (twin units)

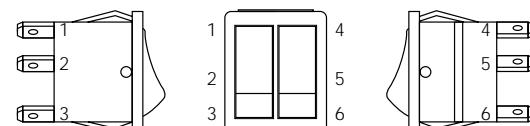
Panel thickness

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 the factory

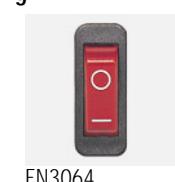
Twin units

Two single switches or a switch and an indicator light can be assembled side by side in one double pole body.
For 1500 range panel cut-out details see page 29.
For 5500 range panel cut-out details (L, B and T) call factory.



For twin units the first set of order format details refer to the
left hand unit, when looking at the front of the assembly
(This has terminal numbers 1, 2 & 3)

Examples of printing



6050 DP Splashproof Switches - IP44 & Twins[#] 16A 250Vac



15

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



UL CSA 20A⁺ 277Vac, 277Vac 1hp, 125Vac 1/2hp
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
20A 28Vdc

* applies to non-momentary types

6050 Switches feature "Arcshield" to hide visible switching arc
3mm contact gap with Positive Break switching

Call factory for IP details on Twin units

Technical data on pages 4 & 5 (switches), 66 (indicators)

Patent app.

C 6053 A L ---

TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

TERMINAL	FUNCTION	ROCKER
C 6.3 x 0.8	Approvals & ratings vary with function On Off Switches - ON when pressed over terminals 3 & 6	
	6050 ON - OFF	A Softline Matt
	6051 ON - OFF (momentary ON)	
	6052 ON - OFF (momentary OFF)	A Softline Matt
H 4.8 x 0.8	6053 ON - OFF Lit	
	6054 ON - OFF (momentary ON) Lit	P Lit Window Matt
	6055 ON - OFF (Single pole) (momentary ON) Lit	
	6056 ON - OFF (Single pole) Isolated light	
S Screw & Clamp N/A for assemblies with 3 terminals in either pole	6057 ON - OFF Isolated light	
	6058 ON - OFF (Single pole) Lit	
	6059 ON - OFF (momentary ON Isolated light)	Circuits are Double Pole unless described otherwise

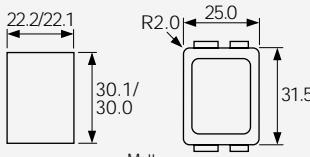
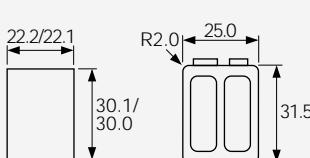
For IP65 see "options" below

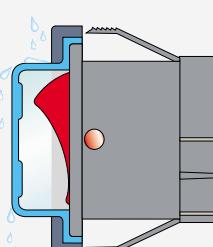


Splashproof to IP44

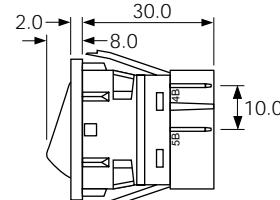
Current carrying parts are protected from moisture. Droplets which may enter the switch are channelled out through ports in the switch body



BODY	
Panel cut-out *	Flange Cut-outs must be punched in the direction of insertion
L Double pole	
L Twin units	
Contact factory for information on splashproofing and IP ratings	

OPTIONS	
Finish	Matt is standard
Colour	Call factory 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 factory for details
Protective cover (designed to IP65 #)	The 6000 series is a water thru design. For a higher level of sealing, a snap on cover is available (add G after body code). 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 factory for details
Terminal Link P1067	connects the poles of a double pole switch or twin unit
# Mounting orientation may affect IP rating	
For all options call the factory	

DIMENSIONS (mm)



Terminal spacing - Poles 10.5 between centres

Panel thickness

L 0.75 to 3.0mm
* For cut-out details on momentary switches call the factory

Twin units: 2 switches or indicators in one body

Repeat order details for both sides (left side first)
Call factory for IP details on Twin units
Circuits: refer to page 18

Examples of printing



1550 Standard & 1350 Hi Inrush Switches

150A to IEC65 and 16A 250Vac



"Arcshield" feature hides visible switching arc



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

In house test

Inrush 36A to EN61058-1 & 20A 28Vdc



1350 series 16(4)A 250Vac T85 1E4 (10,000 Ops.)

On request 16(6)A 250Vac T125 5E4 (50,000 Ops.) & 150A Inrush to IEC 65



UL CSA 20A 250Vac 1hp, 125Vac 1/2hp

UL 72Vdc 7A, 36Vdc 14A. UL 85°C, file E45221, CSA file LR10990

In house test

20A 28Vdc

3mm contact gap except if marked μ . Technical data on pages 4 & 5 (switches), 66 (indicators)

C 1553 A L ---
TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, VOLTAGE ETC

TERMINAL	FUNCTION	ROCKER
C 6.3 x 0.8	Approvals & ratings vary with function On Off Switches - ON when pressed over terminal 1 Standard 1550 ♦ Hi Inrush 1350 ♦	A Softline Matt Lit (not momentary)
H 4.8 x 0.8*	1551 HP rating N/A	B Splashproof (with Arcshield)
K 2.0 x 0.8* 2.8 x 0.8*	1552 HP rating N/A	V Curved Matt or gloss Gloss only Lit (not momentary)
T Ø2.1 Solder	1553 ♦ Not W, X or B rocker 1560 ♦ μ HP rating N/A	W Splashproof (with Arcshield) Lit window Matt Lit (not momentary)
U Ø2.1 Right angle T Solder (Not DP)	1561 μ In house tests only 1562 μ In house tests only 1570 ♦ μ 125V & 250V 1/2 HP H terminal rated 1100 only	X Two colour Matt (On Off only - not momentary)
X 4.0 PCB 0.8Sq*	1571 μ HP rating N/A H terminal rated 1100 only 1572 μ HP rating N/A H terminal rated 1100 only 1484 μ In-house tested to 10(3)A 250Vac 1487 μ In-house tested to 10(3)A 250Vac 0480 X terminal N/A	F Flat lens Gloss (0480 only) Top view A Softline lens Matt (0480 only) as F but with raised profile

*Contact factory for details on 1350 series



C1350AL ---



C1550XL ---



C1553PL ---



C0480AL ---



Optional snap-in M441 barrier

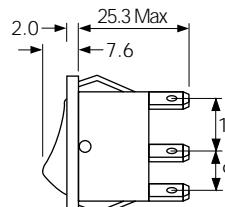


C1553AA with M616 guard
Cut-out 22.0/22.1x29.4/29.5
Guard accepts "A" body only

BODY	
Panel cut-out *	Flange Cut-outs must be punched in the direction of insertion
A	
B	
L	
Q	
R	
T	

OPTIONS	
Finish	Matt is standard
Colour	Call factory 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 factory for details
Blanking plates A0494	Dummy units to fill unused panel holes
Protective cover (designed to IP65)	(selected to A, L, Q or T bodies (add G after body in cat no). This reduces panel thickness by 1mm.
<p>1350 High inrush, positive break switching</p> <p>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.</p>	
<p>Arcshield Hides switching arc</p>	
<i>For all options call the factory</i>	

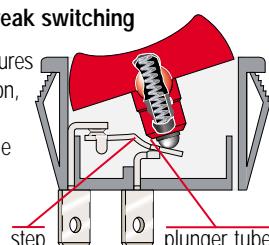
DIMENSIONS (mm)



Terminal spacing - Poles 10.2 between centres

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 the factory	



Examples of printing



EN602A



EN730



EN822

1500 Twin Units Switches and Indicators

16A 250Vac



15

16(4)A 250Vac T125

UL CSA 16A 250Vac

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

In house test

Inrush 36A to EN61058-1 & 20A 28Vdc

For versions with High Inrush or for 50,000 operations, see pages 20 and 26
3mm contact gap except where marked μ
Technical data on pages 4 & 5 (switches), 66 (indicators)

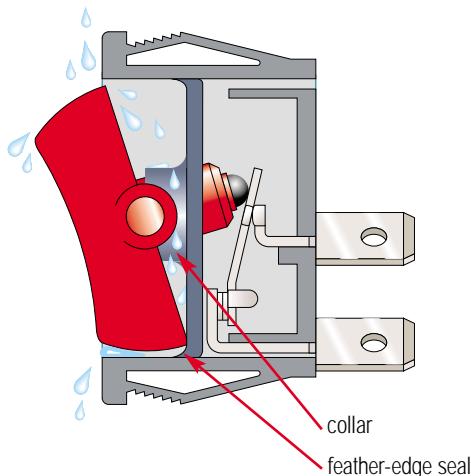
For twin units repeat the order details for both the left and right sides

C 1500 A / C 1510 A L ---

TERMINAL FUNCTION ROCKER TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, ETC

TERMINAL	FUNCTION	ROCKER
C 6.3 x 0.8	Approvals & ratings vary with function On Off Switches - ON when pressed over terminal 1 or 4	
H 4.8 x 0.8	1500 ON - OFF	
K 2.8 x 0.8	1510 μ HP rating N/A ON - ON	
T Solder	1520 μ 125V & 250V 1/2 HP 125V H terminal rated T100 only ON - OFF - ON	
X PCB 0.8Sq	0430 X terminal N/A Indicator Technical data on page 66	

Enhanced Splashproofing

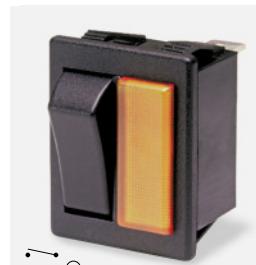


1500 W and B splashproof options

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



C1500A/C1500AL



C1500A/C0430AL



C1500X/C1500XL



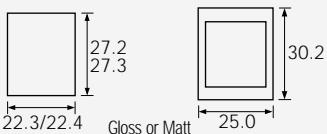
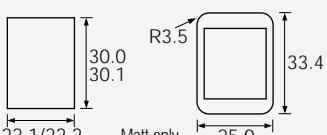
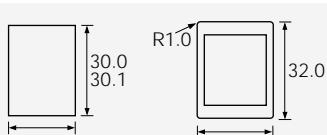
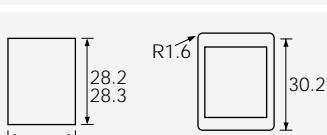
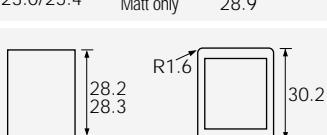
C1520A/C1510AL



C1500A/C1520AL

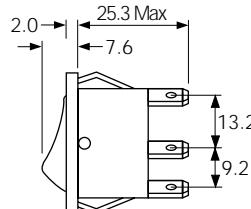


CO430A/C0430AL

BODY	
Panel cut-out *	Flange Cut-outs must be punched in the direction of insertion
A	
B	
L	
Q	
R	
T	

OPTIONS	
Finish	Matt is standard
Colour	Call factory for custom colours. A full range is available for large orders
Legend printing	Call factory for custom legends. State if a legend is to appear on the right or left hand unit (viewed from the front)
Lamp voltage	Call factory for details
Arcshield	Hides switching arc
<i>For all options call the factory</i>	

DIMENSIONS (mm)



Call the factory for terminal spacing details

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 the factory	

Twin unit terminal numbering

The first 6 digits of the catalogue number refer to the left hand unit when looking at the front. (This has terminal nos. 4, 5 & 6)

Examples of printing

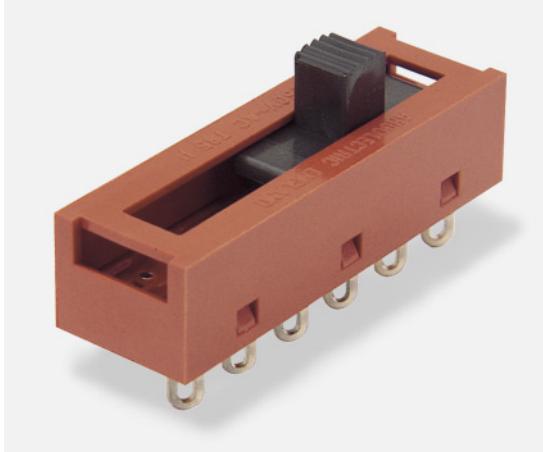


EN602A



EN730

2000 Slide Switches - up to 5 position 10A 250Vac



15

10A 250Vac T85
6(3)A 250Vac T85



UL CSA 16A 250Vac Non Inductive
UL CSA 4A 300Vac
UL65°C, file no. E45221, CSA file no. LR10990

μ contact gap

Please specify: Standard action (SP116) or Light action (SP118)
2000 series lubrication is inorganic and does not degrade plastics

Technical data on pages 4 & 5

T 2 2 20 5 C ---
TERMINAL SERIES POSITIONS CIRCUIT SLIDER BODY PRINT, COLOUR, ETC

► TERMINAL	► SERIES	► POS'N	► CIRCUIT	► SLIDER
K 2.8 x 0.8			10 20 30 	0 6 D L
R 2.8 x 0.8			40 10 20 30 40 	1 7 E N
T 1.6 Solder	2	3 ♦ Switching positions	2 30 40 	2 9 G P
X PCB 0.8 Sq.		4 ♦ Switching positions	10 20 30 40 	A H R
Y PCB 0.8 Sq. For mounting stability switches have extra "support" terminals		5 ♦ Switching positions	10 20 30 40 	B J S C K T
* Nominal - Dimension varies with body type. For exact figure call factory				



X22205C ---

T2220EC ---

T23206A ---



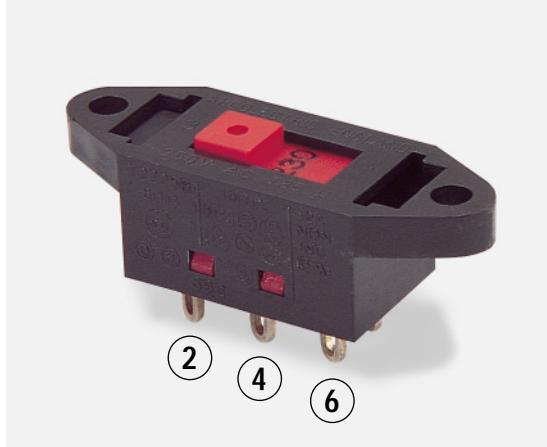
T24306A ---

T25302A ---

T25100A ---

BODY		OPTIONS	DIMENSIONS (mm)		
C 2 positions	H 2 positions	Colour For custom slider colours call the factory. A full range is available for large orders	2 Position C body 	2 Position H body 	Cut-out/PCB Matrix
A 3 positions	H 3 positions		3 Position A body 	3 Position H body 	
A 4 positions	H 4 positions		4 Position A body 	4 Position H body 	
A 5 positions			5 Position A body 		

2000 Slide Switches - Snap-in & 2 hole fixing 10A 250Vac



10 A 250Vac T85
6(3)A 250Vac T85



UL CSA 16A 250Vac Non Inductive
UL CSA 4A 300Vac
UL65°C, file no. E45221, CSA file no. LR10990

μ contact gap

Please specify: Standard action (SP116) or light action (SP118)
2000 series lubrication is inorganic and does not degrade plastics

Technical data on pages 4 & 5

115/230 is preferred legend

T 2 2 20 5 B ---

TERMINAL SERIES POSITIONS CIRCUIT SLIDER BODY PRINT, COLOUR, ETC

► TERMINAL	► SERIES	► POS'N	► CIRCUIT	► SLIDER
K 2.8 x 0.8			10 	2 Pos B Body only
R 2.8 x 0.8			20 	2 & 3 Pos B Body only
T Solder	2	Switching positions	0 	2 & 3 Pos B Body only
X PCB 0.8 Sq. For mounting stability switches have extra "support" terminals * Nominal - Dimension varies with body type. For exact figure call factory			3 	E Body & Legend optional
			10 	2 & 3 Pos B Body only
			2 	2 & 3 Pos B Body only
			7 	2 & 3 Pos B Body only
			4 	2 & 3 Pos B Body only
			9 	2 & 3 Pos B Body only
			5 	2 Pos B Body only Also with legend
			30 	2 & 3 Pos B Body only
			40 	2 & 3 Pos B Body only
			1 	2 Pos B Body only
			8 	2 & 3 Pos B Body only
			10 	2 & 3 Pos B Body only
			11 	2 & 3 Pos B Body only
			12 	2 & 3 Pos B Body only
			13 	2 & 3 Pos B Body only
			14 	2 & 3 Pos B Body only
			15 	2 & 3 Pos B Body only
			16 	2 & 3 Pos B Body only
			17 	2 & 3 Pos B Body only
			18 	2 & 3 Pos B Body only
			19 	2 & 3 Pos B Body only
			20 	2 & 3 Pos B Body only
			21 	2 & 3 Pos B Body only
			22 	2 & 3 Pos B Body only
			23 	2 & 3 Pos B Body only
			24 	2 & 3 Pos B Body only
			25 	2 & 3 Pos B Body only
			26 	2 & 3 Pos B Body only
			27 	2 & 3 Pos B Body only
			28 	2 & 3 Pos B Body only
			29 	2 & 3 Pos B Body only
			30 	2 & 3 Pos B Body only
			31 	2 & 3 Pos B Body only
			32 	2 & 3 Pos B Body only
			33 	2 & 3 Pos B Body only
			34 	2 & 3 Pos B Body only
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			42 	2 & 3 Pos B Body only
			43 	2 & 3 Pos B Body only
			44 	2 & 3 Pos B Body only
			45 	2 & 3 Pos B Body only
			46 	2 & 3 Pos B Body only
			47 	2 & 3 Pos B Body only
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			60 	2 & 3 Pos B Body only
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			78 	2 & 3 Pos B Body only
			79 	2 & 3 Pos B Body only
			80 	2 & 3 Pos B Body only
			81 	2 & 3 Pos B Body only
			82 	2 & 3 Pos B Body only
			83 	2 & 3 Pos B Body only
			84 	2 & 3 Pos B Body only
			85 	2 & 3 Pos B Body only
			86 	2 & 3 Pos B Body only
			87 	2 & 3 Pos B Body only
			88 	2 & 3 Pos B Body only
			89 	2 & 3 Pos B Body only
			90 	2 & 3 Pos B Body only
			91 	2 & 3 Pos B Body only
			92 	2 & 3 Pos B Body only
			93 	2 & 3 Pos B Body only
			94 	2 & 3 Pos B Body only
			95 	2 & 3 Pos B Body only
			96 	2 & 3 Pos B Body only
			97 	2 & 3 Pos B Body only
			98 	2 & 3 Pos B Body only
			99 	2 & 3 Pos B Body only
			100 	2 & 3 Pos B Body only
			101 	2 & 3 Pos B Body only
			102 	2 & 3 Pos B Body only
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			104 	2 & 3 Pos B Body only
			105 	2 & 3 Pos B Body only
			106 	2 & 3 Pos B Body only
			107 	2 & 3 Pos B Body only
			108 	2 & 3 Pos B Body only
			109 	2 & 3 Pos B Body only
			110 	2 & 3 Pos B Body only
			111 	2 & 3 Pos B Body only
			112 	2 & 3 Pos B Body only
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			114 	2 & 3 Pos B Body only
			115 	2 & 3 Pos B Body only
			116 	2 & 3 Pos B Body only
			117 	2 & 3 Pos B Body only
			118 	2 & 3 Pos B Body only
			119 	2 & 3 Pos B Body only
			120 	2 & 3 Pos B Body only
			121 	2 & 3 Pos B Body only
			122 	2 & 3 Pos B Body only
			123 	2 & 3 Pos B Body only
			124 	2 & 3 Pos B Body only
			125 	2 & 3 Pos B Body only
			126 	2 & 3 Pos B Body only
			127 	2 & 3 Pos B Body only
			128 	2 & 3 Pos B Body only
			129 	2 & 3 Pos B Body only



T22208E ---

T22308E ---

T2230MF ---



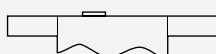
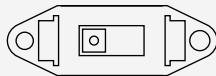
T22205B ---

T22305B ---

T23204B ---

BODY

B With fixing holes



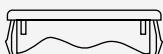
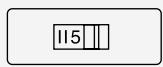
E Snap-in



Cut-outs must be punched
in the direction of insertion

F Snap-in

(single pole ON OFF only)



Cut-outs must be punched
in the direction of insertion

OPTIONS

Colour

For custom slider colours call the factory.
A full range is available for large orders

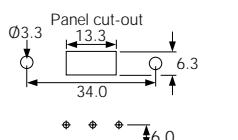
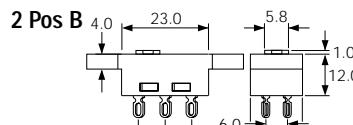
Standard body colour is black

Legend printing

A wide range is available

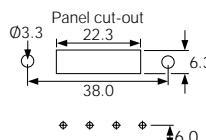
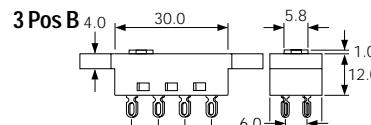
For all options call the factory

DIMENSIONS (mm)



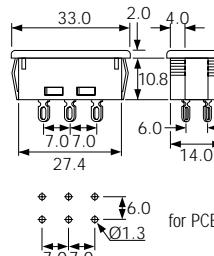
for PCB

Cut-out / PCB Matrix

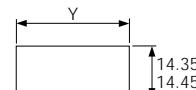


for PCB

2 Pos E

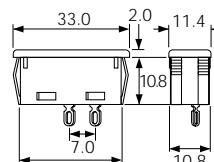


for PCB

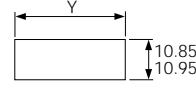


Panel thickness	Dim. Y
0.8-1.2	29.75/29.85
1.63	30.15/30.25
2.0	30.35/30.45
2.5	30.55/30.65

2 Pos F



for PCB,
call factory for details



Panel thickness	Dim. Y
0.8-1.2	29.75/29.85
1.63	30.15/30.25
2.0	30.35/30.45
2.5	30.55/30.65

8300 Push Button Switches 16A 250Vac



16(4)A 250Vac T85, 1E4 (10,000 Operations)
12(2)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

3mm contact gap
Technical data on pages 4 & 5

H 8353 J E ---
TERMINAL FUNCTION ACTUATOR BODY PRINT, COLOUR, ETC

TERMINAL	FUNCTION	ACTUATOR
C 6.3 x 0.8	Approvals & ratings vary with function Single pole switches use terminals 1 & 2 (& 3)	 2 1 3 4
H 4.8 x 0.8	8300 ♦ ON - OFF Single pole	
A As "H" but right angle 4.8 x 0.8		
K 2.6 x 1.5 8.5	8301 ♦ ON - OFF (momentary ON) Single pole	
T 2.6 x 1.5 7.0 Solder	8303 ♦ ON - OFF with light Single pole	
X 4.5 x 1.5 7.0	8304 ♦ ON - OFF (momentary ON) with light Single pole	
V 3.7Ctrs PCB 0.8 Sq	8350 ♦ ON - OFF Double pole	
V 3.7Ctrs Dual pin PCB (Call factory for matrix dims)	8351 ♦ ON - OFF (momentary ON) Double pole	
	8353 ♦ ON - OFF with light Double pole	
	8354 ♦ ON - OFF (momentary ON) with light Double pole	



C8350AB ---
T8350AB ---



H8353JE ---
T8353JE ---



H8353EB ---
T8353EB ---



H8353CB ---
T8353CB ---



H8350DB ---
T8350DB ---



H8350HB ---

Example of actuator

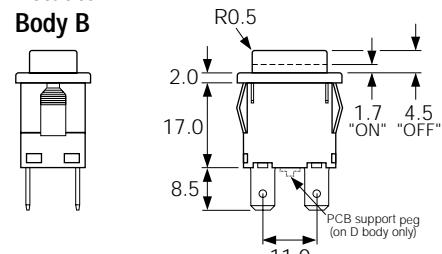
BODY	
Panel cut-out	Flange Cut-outs must be punched in the direction of insertion
B Standard body	
D As B body but with PCB support peg	
E Softline style body with radiused bezel	
F As E body but with PCB support peg	
Dimensions for snap-in fixing	
Panel thickness	Dimension X
0.75-1.24	19.1/19.2
1.25-1.99	19.3/19.4
2.00-3.00	19.7/19.8

OPTIONS	
Finish	Matt finish standard except on J and D actuators which are gloss
Colour	Call factory for custom colours A full range is available for large orders
Legend printing	Select from the examples or call factory for custom legends
Special buttons	Some of the many options are shown Call the factory for the full range
L167 Protective cover (designed to IP65)	
Screws snap on to switch bodies fitted with "A" or "J" style actuators but reduces panel thickness by 0.8mm	

DIMENSIONS (mm)

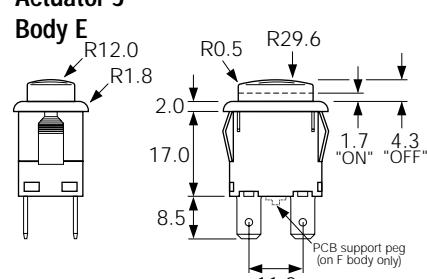
Actuator A

Body B



Actuator J

Body E



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

Examples of printing



EN1153



EN1152

8200 Push Button Switches 16A 250Vac



16(4)A 250Vac T85, 1E4 (10,000 Operations)
12(2)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
250Vac 1hp, 125Vac 1/2hp
UL 85°C, file E45221, CSA file LR10990

3mm contact gap
Technical data on pages 4 & 5

H 8200 A A ---
TERMINAL FUNCTION ACTUATOR BODY OPTIONS

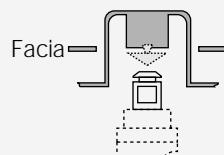
	TERMINAL
C	
H	
A	
K	
T	
X	
V	
M	

	FUNCTION	ACTUATOR
8200	ON - OFF Single pole	
8201	ON - OFF (momentary ON) Single pole	
8250	ON - OFF Double pole	
8251	ON - OFF (momentary ON) Double pole	

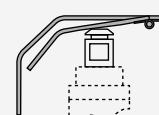
NEW

Examples of possible actuation methods

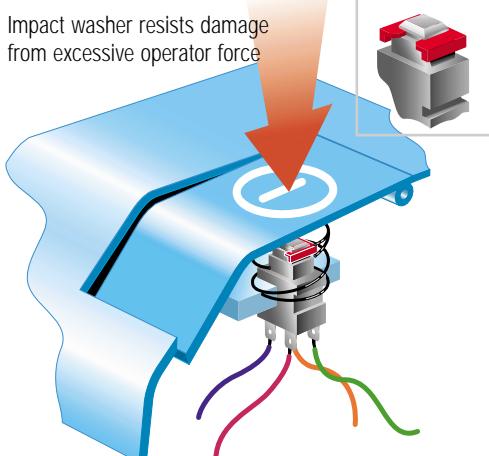
Using a Snap on adaptor



Using a Hinged Actuator



Alternative Actuator



BODY

A
Standard body

See dimensioned drawings for details

C
As standard body but with side support peg for use with M PCB terminals

See dimensioned drawings for details

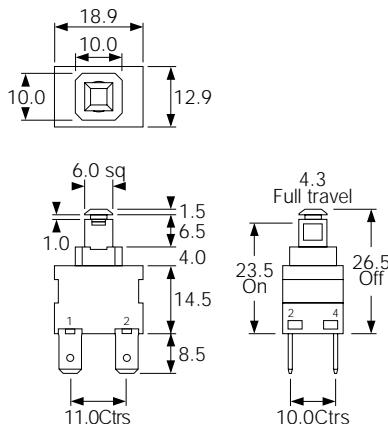
D
As standard 'A' body but with base support peg for use with V PCB terminals

NEW

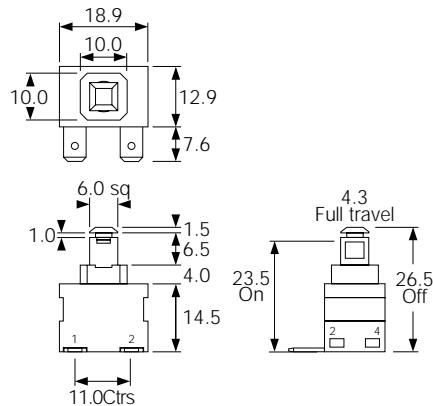
See dimensioned drawings 'A' for details

DIMENSIONS (mm)

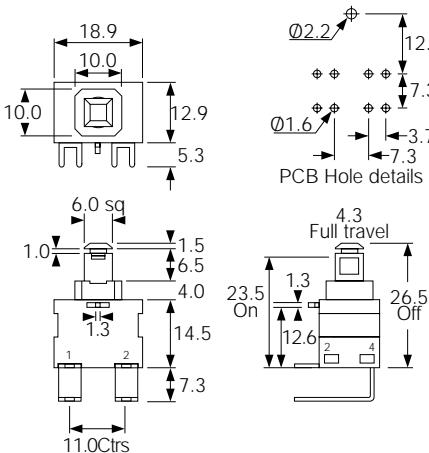
'A' body with 'H' 4.8 terminals



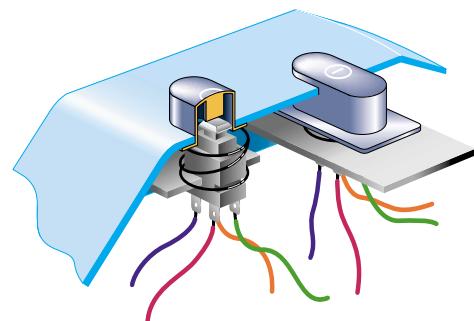
'A' body with 'A' right angle 4.8 terminals



'C' body with 'M' right angle PCB terminals



Example of possible mounting styles



7000 Push Button Switches



16(4)A 250Vac T125
8(8)A 250Vac T85



UL CSA 16A Non Ind, 250Vac 1hp, 125Vac 1/2hp
UL65°C, file no. E45221, CSA file no. LR10990

In house test

Inrush 35A to EN61058-1 & 16A 28V dc

3mm contact gap

Technical data on pages 4 & 5 (switches), 66 (indicators)

C 7053 A F ---
TERMINAL FUNCTION ROCKER BODY PRINT, COLOUR, ETC

► TERMINAL	►	FUNCTION	► ACTUATOR
C 6.3 x 0.8	7000 2 1	Single pole ON - OFF 	A Round actuator shown in F body 21.0 9.7
H 4.8 x 0.8	7001 4 2 3 1	Single pole ON - OFF (momentary ON) 	A Round actuator shown in G body 21.0 9.7
	7003 4 2 3 1	Single pole ON - OFF with light 	A Round actuator shown in G body 21.0 9.7
	7004 4 2 3 1	Single pole ON - OFF (momentary On) with light 	A Round actuator shown in G body 21.0 9.7
	7050 4 2 3 1	Double pole ON - OFF 	S Rectangular actuator Shown in "A" body N/A for 7030 19.5 8.8
	7051 4 2 3 1	Double pole ON - OFF (momentary On) 	S Rectangular actuator Shown in "A" body N/A for 7030 19.5 8.8
	7053 4 2 3 1	Double pole ON - OFF with light 	S Rectangular actuator Shown in "A" body N/A for 7030 19.5 8.8
	7054 4 2 3 1	Double pole ON - OFF (momentary On) with light 	S Rectangular actuator Shown in "A" body N/A for 7030 19.5 8.8
	7030 4 2 3 1	Indicator 	



C7000AF ---



C7001AF ---



C7003AF ---



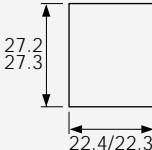
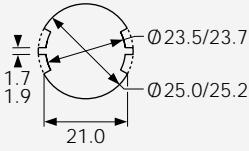
C7050SA ---

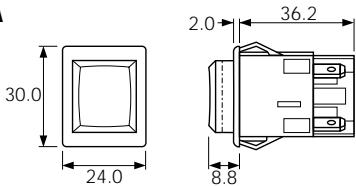
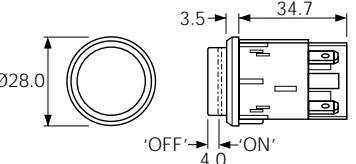
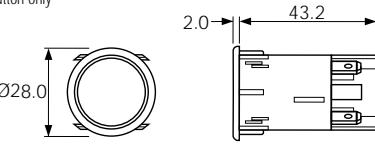
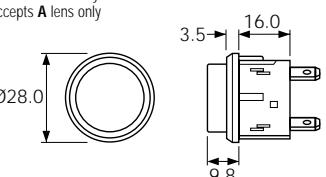


C7053AG ---



C7030AH ---

	BODY	OPTIONS
	Panel cut-outs	
F H G	Body types fit either cut-out	
	 	Finish Matt finish is standard on bodies Gloss finish is standard on actuators
A		Colour Call factory for custom colours A full range is available for large orders
		Legend printing A wide range is available or call the factory for custom legends
		Lamp voltage Call factory for details of other available voltages
		Protective housing (E) (designed to IP65) Covers are available for round body styles, call factory for details
		Cut-outs must be punched in the direction of insertion

	DIMENSIONS (mm)
	Panel thickness:
A	0.8 - 2.5mm
F,G,H	0.8 - 5.0mm
A	
F	
G button only	
H 7030 Indicator only Accepts A lens only	

1100 Push Button Switches

0.125A 125Vac



UL 0.125A 125Vac
UL 0.125A 45Vdc
UL file E45221

(In house test) 0.5A 250Vac T85 5E4 (50,000 Operations)

μ contact gap
Technical data on pages 4 & 5



T1100AA - - -



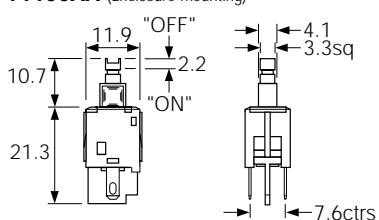
T1101AA - - -

T 1100 A A - - -
TERMINAL FUNCTION ACTUATOR BODY OPTIONS

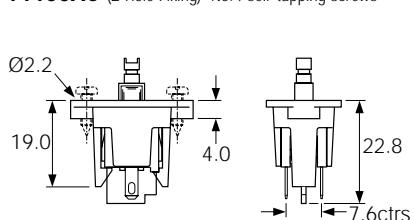
► TERMINAL	► FUNCTION	► ACTUATOR	► BODY
T 	1100 ♦ 1101 ♦ 	A Actuator without button B Softline button 	A For purpose designed facias and sub-panels B Snap-in fixing Panel thickness 0.75-1.24 Dimension X 1.25-1.99 19.1/19.2 2.00-3.00 19.3/19.4 19.7/19.8 C 2 Hole fixing

Dimensions (mm)

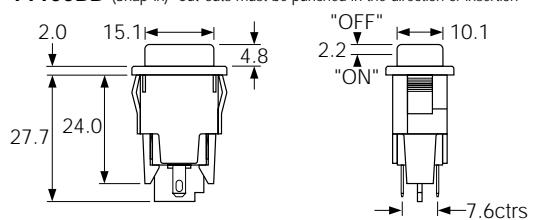
T1100AA (Enclosure mounting)



T1100AC (2 Hole Fixing) No.4 self-tapping screws



T1100BB (Snap-in) Cut-outs must be punched in the direction of insertion



0916 - 0920 Push Button Switches

0.5A 250Vac

Self-Wiping - Slow Make & Break

In house test 0.5A 250Vac T85

μ contact gap

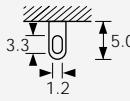
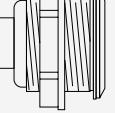
Technical data on pages 4 & 5



T 0916SO--- & T0916LO---

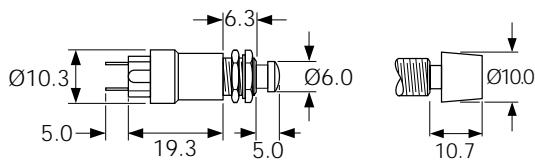
T 0916VA---

T 0916 S O ---
TERMINAL FUNCTION ACTUATOR BODY COLOUR

► TERMINAL	► FUNCTION	► ACTUATOR	► BODY	► OPTIONS
T 	0916  Black base SP ON-OFF (momentary ON) 0917  Brown base SP ON-ON (momentary 1 side) 0918  White base SP ON-OFF (momentary OFF) 0919  Black base SP ON-ON (momentary 1 side) 0920  White base DP ON-OFF (momentary ON)	S Small Actuator  L Large Actuator 	O for L and S Actuator  V Vandal Resistant IP66 Flat top Stainless steel 	Finish Gloss finish for L and S actuators Colour Call factory for custom colours A full range is available for large orders

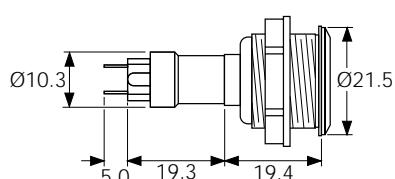
Dimensions (mm)

Nylon S and L actuators



Neck thread - 40 TPI Whit. Actuator travel - 2.5 max

Stainless steel V actuator (IP66)



Neck thread - 26 TPI Whit. Actuator travel - 2.5 max

0910 - 0911 Push Button Snap Action Switches

15(4)A 250Vac



15(4)A 250Vac T85



UL 15A, 1/2hp 125-250Vac 85°C,
UL file E91973, CSA file LR98589

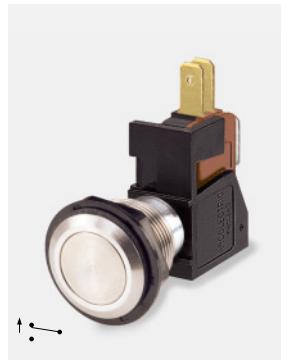
Approvals apply to switch mechanism only (34340350COLO000)
 μ contact gap

Full rating details and technical data on pages 50 & 51

Ratings are at full plunger travel



C0911KB ---



C0911VA ---



C0911RB ---



C0911PB ---



C0911EB ---

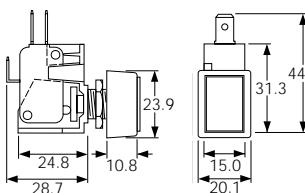
C0911BB ---

C 0911 K B ---
 TERMINAL FUNCTION ACTUATOR BODY COLOUR

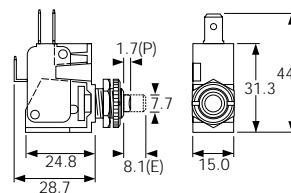
► TERMINAL	► FUNCTION	► ACTUATOR	► BODY	► OPTIONS
C 	0910 ON - ON (alternate) 0910 is available with K and N actuators only	R Rectangular bezel B Large Contact factory for details E Long P Short K with satin chrome bezel N with nylon bezel V Vandal resistant (911only) 	B N/A for V Actuator Panel Cut-out Panel thickness Both nuts 2.5mm No backnut 4.0mm	Colour Call factory for custom colours A full range is available for large orders Cover M323 Available for "P" actuator only

Dimensions (mm)

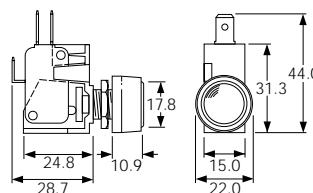
R



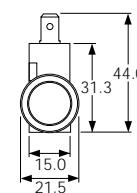
P & E



K & N



V Vandal resistant designed to IP66



1900 Vandal Resistant Switches - Designed to IP66



6A 250Vac T85 25E3
2A 250Vac T85 50E3*
6A 250Vac T85
UL file no. E91973

NEW

Approvals apply to switch mechanism only
 μ contact gap
 Ratings shown are at full plunger travel
 Switching mechanisms are snap action (not sealed)
 Actuator and bezel are stainless steel
 *See rating details and technical data on pages 48 & 49

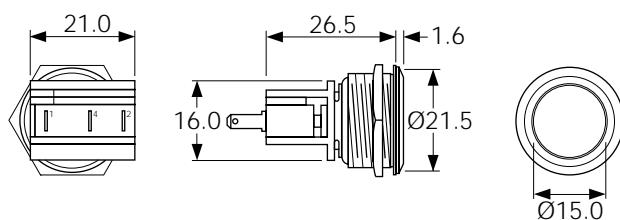
K 1911 V L
 TERMINAL FUNCTION ACTUATOR BODY



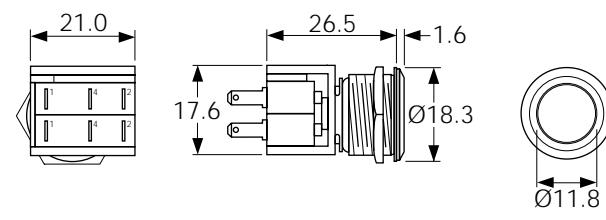
► TERMINAL	► FUNCTION	► ACTUATOR	► BODY
K 2.8 x 0.5	1911 ON - ON (momentary 1 side) Single pole	V Flat top (stainless steel)	A Stainless steel Chamfer profile bezel Ø19.2 Panel thickness up to 4.0mm
T Solder	1961 ON - ON (momentary 1 side) Double pole	 	L Stainless steel Chamfer profile bezel Ø16.0 Panel thickness up to 4.0mm
X PCB			

Dimensions (mm)

Single pole (K1911VA shown)



Double pole (K1961VL shown)



8300 Vandal Resistant Switches - Designed to IP66

NEW



16(4)A 250Vac T85, 1E4 (10,000 Operations)
12(2)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

3mm contact gap

Technical data on pages 4 & 5

Switching mechanism not sealed

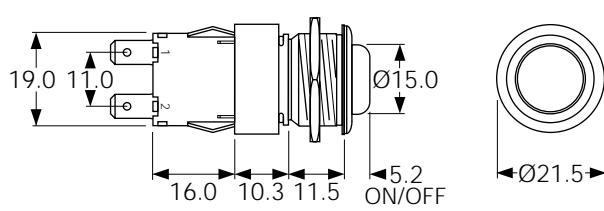


H8300RP ---

► TERMINAL	► FUNCTION	► ACTUATOR	► BODY
C H 	8300 ON - OFF (alternate) Single pole	R Raised top (stainless steel)	P Stainless steel Soft profile bezel
K T Solder	8301 ON - OFF (momentary ON) Single pole		 Panel thickness 0.75 - 3.0mm
V X Dual pin PCB	8350 ON - OFF (alternate) Double pole	8351 ON - OFF (momentary ON) Double pole	For details of alternative panel cut-out and bezel diameters, call the factory

Dimensions (mm)

8300RP (H terminals shown)



0911 Vandal Resistant Switches - Designed to IP66



16(4)A 250Vac T85



UL 16A, 1/2hp 125-250Vac 85°C,
UL file E91973, CSA file LR98589

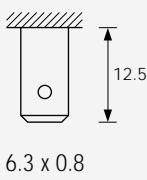
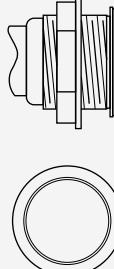
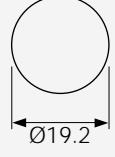
Approvals apply to switch mechanism only (34340350COLOOO)
 μ contact gap

Full rating details and technical data on pages 50 & 51

Ratings are at full plunger travel

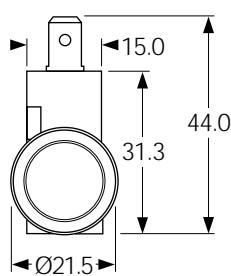
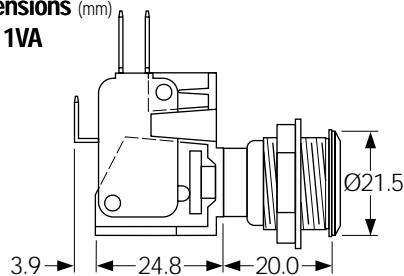


C 0911 V A
 TERMINAL FUNCTION ACTUATOR BODY

► TERMINAL	► FUNCTION	► ACTUATOR	► BODY
C  6.3 x 0.8	0911  ON - ON (momentary 1 side)	V Flat top (stainless steel) 	A Stainless steel Chamfer profile bezel  Panel thickness up to 8.0mm

Dimensions (mm)

C0911VA



04102 Push Button Switches

16(4)A 250Vac



16(4)A 250Vac T85 (10,000 operations)

Snap action normally open or closed switching
Large overtravel allows actuator / button tolerance
Button shape allows operation by hinged actuators

μ contact gap
UL94 V1 Button and body
Complies with UL Glow wire test - 850°C Cat D

Additional technical data on pages 4 & 5

Factored product



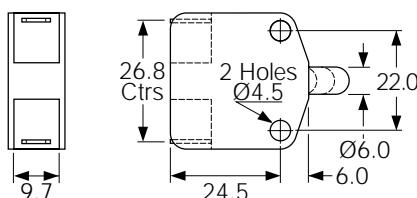
04102-001

TERMINAL FUNCTION ACTUATOR BODY

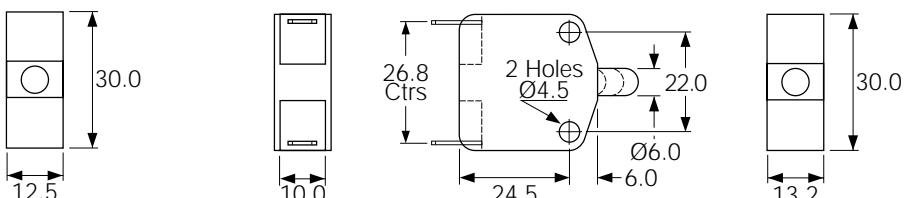
► TERMINAL	► FUNCTION	► ACTUATOR	► BODY
<p>6.3 x 0.8 Force when applying connectors \leq80N</p>	04102-001 Single Pole ON-OFF (momentary ON)	<p>(Off) 15.0 (Mom On) 12.4 (Full Travel) 8.0</p>	2 Hole fixing <p>\varnothing4.5 22.0</p> <p>(shakeproof washers not to be used with fixings)</p>
<p>6.3 x 0.8 Force when applying connectors \leq80N</p>	04102-001R Single Pole ON-OFF (momentary OFF)	<p>(On) 15.2 (Mom Off) 13.0 (Full Travel) 8.2</p>	

Dimensions (mm)

04102-001



04102-001R



0936 - 0938 Push Button Switches

0.5A 250Vac

In house test 0.5A 250Vac
In house test 0.25A 250Vdc

μ contact gap
 Technical data on pages 4 & 5



C0936PC - - -

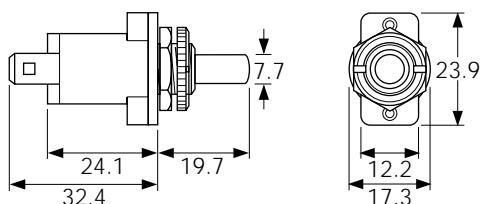


C0938MA - - -

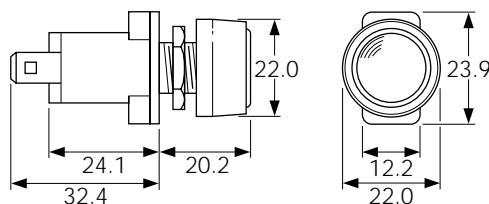
C 0936 P A ---
 TERMINAL FUNCTION ACTUATOR BODY OPTION

► TERMINAL	► FUNCTION	► ACTUATOR	► BODY	► OPTIONS
C	0936	P Small round push 	C Nylon top plate and fixing neck 	Push button finish Gloss finish only
	ON - OFF (momentary ON)			Push button colour Red, black for other colours call the factory
	0938	K satin chrome bezel M moulded nylon bezel both with large round push 	A Metal top plate and fixing neck For Low Voltage (up to 50V) only 	Cover M327 Available for "P" actuator
	ON - OFF (momentary OFF)			Covers have internal nylon nut

Dimensions (mm)
 0936 / 0938 P



0936 / 0938 K / M



290 Series V4 Snap-action Switches Up to 6A 250Vac



6A 250Vac T85 25E3 - *150g
2A 250Vac T85 50E3 - *60g



6A 250Vac T85 - *150g
2A 250Vac T85 - *60g
UL file no. E91973

* * Operating force

Ratings shown are at full plunger travel
 μ contact gap



For sealed snap-action switches contact the factory

29 1 20 150 CO L002

SERIES TERMINAL CONTACT GAP OPERATING FORCE FUNCTION ACTUATOR

► SERIES	► TERMINAL	► CONTACT GAP	► OPERATING FORCE	► FUNCTION
29	1			gms
	2			60
	3		20 (0.5 mm)	
	4			
	5		150	CO ON - (ON) (momentary 1 side)
Viewed from plunger end				



293 20 150 CO L000



291 20 60 CO - - -



294 20 150 CO 0000



292 20 150 CO R000



291 20 150 CO R001

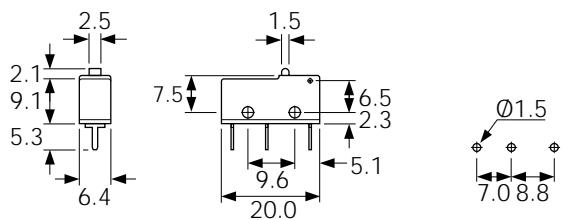


292 20 150 CO 0000

ACTUATOR																					
No lever 0000																					
Plain lever L000 L001 L002	<p>Diagram of plain lever actuator L000. Dimensions: Total height H = 9.1mm, lever length L = 4.2mm, base width = 6.4mm, base height = 5.3mm, plunger height = 2.1mm, and plunger width = 2.5mm.</p>																				
Roller lever R000 R001 R002	<p>Diagram of roller lever actuator R000. Dimensions: Total height H = 12.23mm, lever length L = 3.3mm, base width = 4.8mm, base height = 3.0mm, plunger height = 4.8mm, and plunger width = 1.5mm.</p>																				
	<table border="1"> <thead> <tr> <th>L000</th><th>L001</th><th>L002</th><th>R000</th><th>R001</th><th>R002</th></tr> </thead> <tbody> <tr> <td>Dim H</td><td>12.23</td><td>15.19</td><td>19.93</td><td>16.97</td><td>19.93</td><td>24.66</td></tr> <tr> <td>Dim L</td><td>17.5</td><td>30.0</td><td>50.0</td><td>15.91</td><td>28.41</td><td>48.41</td></tr> </tbody> </table>	L000	L001	L002	R000	R001	R002	Dim H	12.23	15.19	19.93	16.97	19.93	24.66	Dim L	17.5	30.0	50.0	15.91	28.41	48.41
L000	L001	L002	R000	R001	R002																
Dim H	12.23	15.19	19.93	16.97	19.93	24.66															
Dim L	17.5	30.0	50.0	15.91	28.41	48.41															

Many alternative actuators are available from fully adjustable tooling
Contact factory for details

DIMENSIONS (mm)



TECHNICAL DATA

Mechanical life	>5 million operations
Temperature rating	T85°C
Insulation	>1,250V
Tracking resistance	PTI KB 250

MECHANICAL DATA

High at rest point**	8.92
Trip point**	8.16-8.54
Pre-travel	0.38-0.76
Movement differential	0.15 (max)
Overtravel	0.6 (min)

Operating force (nominal)	Release force (min)
60g	10g
150g	50g

**Measured from fixing hole centres to top of plunger

MATERIALS

Body, lid & Plunger	Glass-filled nylon 6.6, VO
Plunger	Glass-filled nylon 6.6, VO
Terminals	Brass
Moving contact arm	Phosphor bronze
Spring	Stainless steel
Contacts	Fine silver
Actuator/roller	Stainless steel/acetal

340 & 390 Series V3 Snap-action Switches Up to 25(4)A 250Vac



340 Series

16(4)A 250Vac T85 50E3 **16A 125/250Vac 1/2hp T85*** 350g All functions
 16(4)A 250Vac T85 25E3 **16A 125/250Vac 1/2hp T85*** 120g All functions
 10(4)A 250Vac T85 25E3 **10A 125/250Vac 1/4hp T85*** 75g All functions

390 Series

25(4)A 250Vac T85 50E3 **22A 125/250Vac 1hp T85*** 350g NO or NC
 22(4)A 250Vac T85 50E3 **22A 125/250Vac 1hp T85*** 120g NO or NC
 20(4)A 250Vac T85 10E3 **20A 125/250Vac 1hp T85*** 350g CO
 16(4)A 250Vac T85 50E3 **16A 125/250Vac 1/2hp T85*** 120g CO

UL file no. E91973

*Operating force

Ratings shown are at full plunger travel
 μ contact gap

34 3 40 350 NO ZDSO

SERIES TERMINAL CONTACT GAP OPERATING FORCE FUNCTION ACTUATOR

► SERIES	► TERMINAL	► CONTACT GAP	► OPERATING FORCE	► FUNCTION
34 (See ratings above for 340 Series)	2 			
	2 		075 (34 Series only)	 CO ON - (ON) (momentary 1 side)
39 (See ratings above for 390 Series)	3 	40 (1.0 mm)		
	5 		120 (34 & 39 Series)	 NO (ON) - OFF (momentary On)
	6 		350 (34 & 39 Series)	 NC ON - (OFF) (momentary Off)



ACTUATOR

No lever **L000**

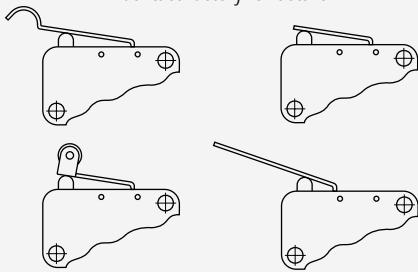
Plain lever
ZD00 **ZD01** **ZD02**

* 7.0 & 9.5mm wide levers also available - contact factory

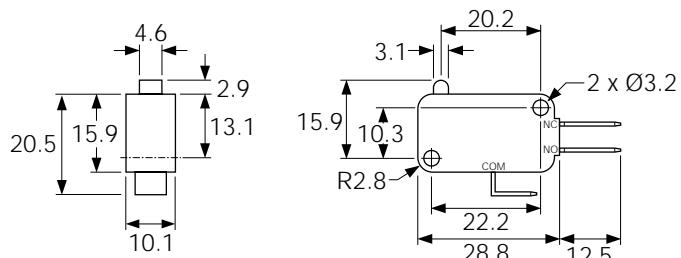
Roller lever
ZDS0 **ZDS1**

	ZD00	ZD01	ZD02	ZDS0	ZDS1
Dim A	17.0	18.6	25.8	22.2	23.9
Dim B	22.6	33.9	84.4	19.7	31.7

Many alternative actuators are available from fully adjustable tooling.
Contact factory for details



DIMENSIONS (mm) (3 terminals shown)



TECHNICAL DATA

Mechanical life	>10 million operations
Temperature rating	T85°C
Insulation	>1,250V
Tracking resistance	PTI KB 300

MECHANICAL DATA

High at rest point**	15.93
Trip point**	14.4-15.17
Pre-travel	0.76-1.52
Movement differential	0.25 (max)
Overtravel	1.32 (min)

Operating force (nominal)	Release force (min)
75g	25g
120g	40g
350g	100g

**Measured from lower hole centre to top of plunger.

MATERIALS

Body, lid & Plunger	Glass-filled nylon 6.6, VO
Terminals	Brass (silver plated for solder) - 34 Series
Rocker arm	Brass silver plated - 39 Series
Moving contact	Brass silver plated
Spring	Phosphor bronze silver plated
Contacts	Beryllium copper
Actuator/roller	Fine silver (34 Series), silver cadmium oxide (39 Series)
Dummy contacts	Stainless steel/acetal
	Glass-filled nylon 6.6, VO

Safety Cut-out Switches 16A 250Vac



C0320AA
16.1A 250Vac



C0320BB
16(4)A 250Vac 1/2hp



μ contact gap

These safety switches are assembled with snap-action switches shown on pages 50 and 51

Technical data, alternative ratings and approvals are listed on the above pages



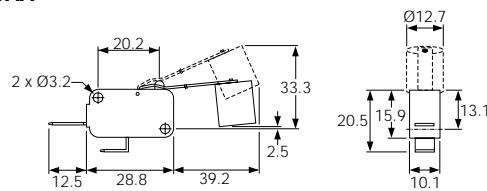
*Safety requirements for Portable Heaters can be met by the fitting of a safety cut-out switch
The heater will then turn off if overturned*

C0320AA - - -

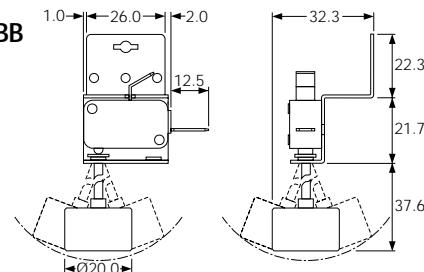
TERMINAL FUNCTION ACTUATOR MOUNTING

ORDER CODE	TERMINAL	FUNCTION	ACTUATOR	MOUNTING
C0320AA	 6.3 x 0.8	 ON - OFF (momentary OFF)		 2 holes Ø3.2 10.3 22.2
C0320BB	 NEW 6.3 x 0.8	 ON - OFF (momentary OFF)		 Ø3.8 8.5 9.3 1.5 3 holes Ø3.0 9.0 9.0

Dimensions (mm) (for assemblies fitted with 340 & 390 series switches)
C0320AA



C0320BB



0305 Combined Switch / Lampholder for Freezers

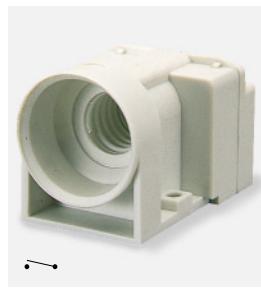
 15

2A 250Vac 25 T 85



UL15W 125/250Vac
UL 65°C, file E116391

For approval status on versions
0306 and 0308 call the factory
Switched units have μ contact gap
Technical data on pages 4 & 5

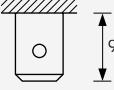
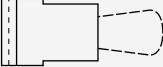
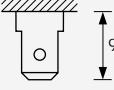
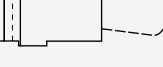


C0305RT - - -



C0305LT - - -

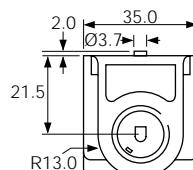
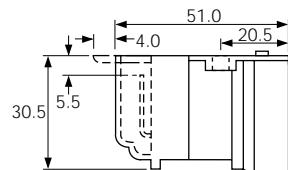
C 0305 R T - - -
TERMINAL FUNCTION MOUNTING BODY COLOUR, ETC

► TERMINAL	► FUNCTION	► MOUNTING	► BODY	► OPTIONS
C  6.3 x 0.8	0305 (E14) ON - OFF Switch and Lampholder 0306 (E12) ON - OFF Switch and Lampholder	L For Left hinged lid for 0305/0306 switches not for 0307 lampholders  View from bulb end	T Body without flange for 0305/0306 switches  Top view	Colour Call factory for colours. A full range is available for large orders
H  4.8 x 0.8	0307 (E14) Lampholder only (No Switch) 0308 (E12) Lampholder only (No Switch)	R For Right hinged lid for 0307 lampholders or 0305/0306 switches  View from bulb end	S Body with rear flange for 0307 lampholders and for 0305/0306 switches  Top view	

Dimensions (mm) and Properties

The mechanism of this switch/lampholder does not contain mercury and may be safely used in food storage equipment.

When fitted to the lid of a freezer storage cabinet, the switch will operate the lamp when the lid is opened to the angle of tilt shown in the drawing.



0055 Refrigerator Door Switches



0055 & 0056
2(0.2)A 250Vac 25T125 5E4
(50,000 operations)

μ contact gap

Technical data on pages 4 & 5

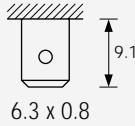
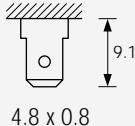
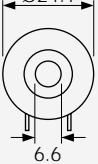


C0055RB ---



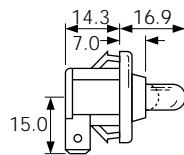
C0056RB ---

C 0055 R B - - -
TERMINAL FUNCTION ACTUATOR BODY COLOUR, ETC

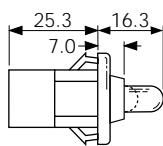
► TERMINAL	► FUNCTION	► ACTUATOR	► BODY	► OPTIONS
C  6.3 x 0.8	0055  ON - OFF (momentary OFF)	R	B Panel cut-out 	Finish Gloss finish only Colour White is standard Call factory for custom colours
H (0056 only)  4.8 x 0.8	0056  ON - OFF (momentary OFF)		0055 0056 Panel thickness 1.0 - 1.6 1.0 - 2.6 Flange 	

Dimensions (mm)

C0055RB



C0056RB



3005 Refrigerator Door Switches *Splashproof*

 15

3005 25W 25T85 5E4 (50,000 Operations) 250Vac
 3006 65W 25T85 5E4 (50,000 Operations) 250Vac

These products require 3mm minimum actuator stroke to ensure switch action and rating above

μ contact gap
 Technical data on pages 4 & 5

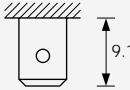
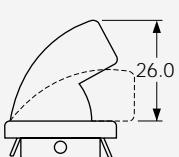
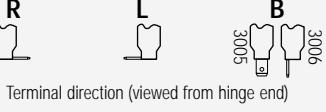
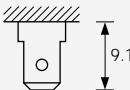
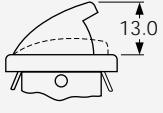


 C3005CB ---



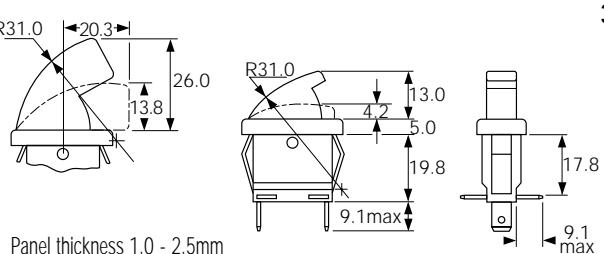
 C3005BL ---

C 3005 C B ---
 TERMINAL FUNCTION ACTUATOR BODY COLOUR, ETC

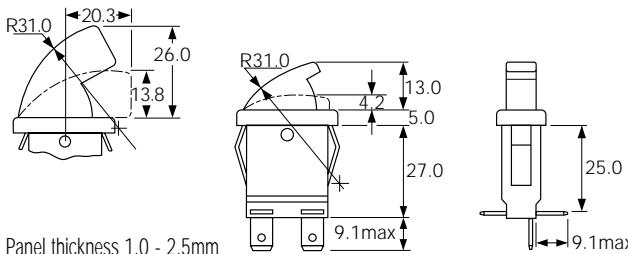
 TERMINAL	 FUNCTION	 ACTUATOR	 BODY	 OPTIONS
C  6.3 x 0.8	3005  ON - OFF (momentary OFF) 1mm max travel to OFF position	B  26.0	3005 or 3006  Panel cut-out 25.4 25.5 12.1/12.2	Finish Gloss finish only Colour White is standard Call factory for custom colours A full range is available for large orders
H  4.8 x 0.8	3006  ON - OFF (momentary ON) 3mm min travel to ON position	C  13.0	3005 only  Panel cut-out 25.4 25.5 12.1/12.2	

Dimensions (mm) (C terminals shown)

3005



3006



3100 Refrigerator Door Switches *Splashproof*



5A 250Vac 25T85 5E4 (50,000 Operations)



UL CSA 5A 250Vac

UL 85°C, file E45221, CSA file LR10990

In house test

200W 250Vac Lampload (400,000 operations)

μ contact gap

Technical data on pages 4 & 5

Sealed terminals option available. Call factory for details



E3102AA - - -



E3111BA - - -

E 3102 A A - - -

TERMINAL FUNCTION ACTUATOR BODY COLOUR, ETC

► TERMINAL	► FUNCTION	► ACTUATOR	► BODY	► OPTIONS
E 3101 3102 3111 <p>For sealed terminals call the factory</p>	FUNCTION 3101 ON - OFF (momentary ON) 3102 ON - OFF (momentary OFF) 3111 ON - ON (momentary 1 side) 	ACTUATOR A B C D E 	BODY A Optional cut-out for orientation Panel cut-out Panel thickness 1.0 - 2.5mm	Finish Gloss finish only Colour White is standard Call factory for custom colours A full range is available for large orders

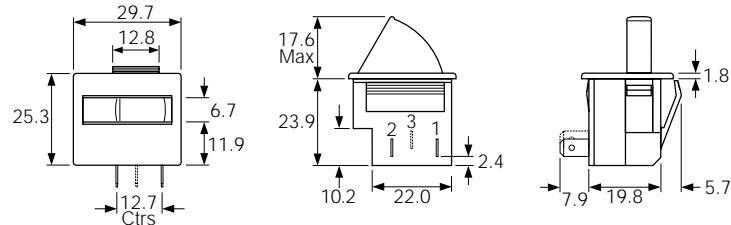
Dimensions (mm) (*A* actuator shown)

3101 uses terminals 1,2

3102 uses terminals 1,2

3111 uses terminals 1,2,3

For details of actuator travel and switching angles call the factory



3140 Refrigerator Door Switches

 15 5A 250Vac 25T85 5E4 (50,000 Operations)

 UL CSA 5A 250Vac
UL 85°C, file E45221, CSA file LR10990

 In house test 200W 250Vac Lampload (400,000 operations)

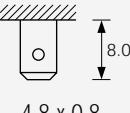
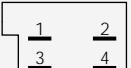
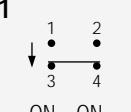
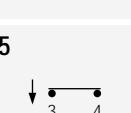
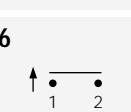
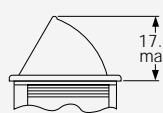
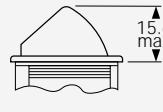
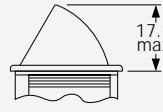
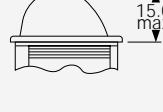
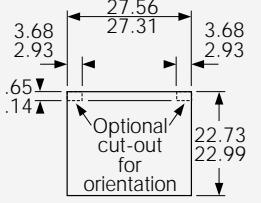
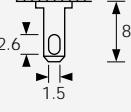
3mm contact gap

Technical data on pages 4 & 5

Sealed terminals option available. Call factory for details



HK 3141 A A - - -
TERMINALS FUNCTION ACTUATOR BODY COLOUR, ETC

► TERMINAL	► FUNCTION	► ACTUATOR	► BODY	► OPTIONS
H  Standard format is H terminals in positions 1 & 2 and K terminals in positions 3 & 4 For sealed terminals call the factory	 3141  3145  3146 	A  B  C  D  E 	A  B 	Finish Gloss finish only Colour White is standard Call factory for custom colours A full range is available for large orders
K 				Panel cut-out Panel thickness 1.0 - 2.5mm

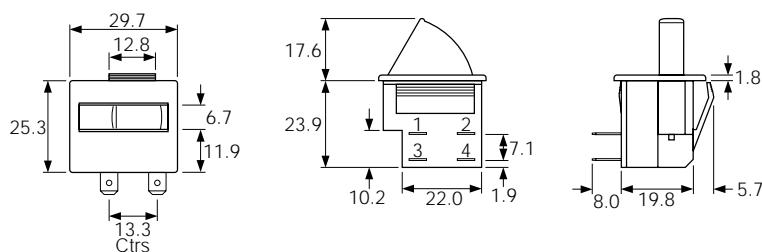
Dimensions (mm) ("A" actuator shown)

3141 uses terminals 1,2,3,4

3145 uses terminals 3,4

3146 uses terminals 1,2

For details of actuator travel and switching angles call the factory



9100 Rotary Switches 16A 250Vac



16(4)A 250Vac T125

16A 400Vac T125

8(8)A 250Vac T125 5E4 (50,000 Operations)



UL CSA 20A Non Ind 277Vac, 250Vac 2hp, 125Vac 1hp
UL85°C, file no. E45221, CSA file no. LR10990

In house test

20A 28V dc

9100 switches are highly versatile with up to 6 positions at 30° intervals and 6 terminals per switch. For more complex switching (7 positions & over), contact the factory. Two switches may be stacked to give up to 12 terminal switching.

Custom spindles of any length, with or without a "D" flat, can be produced from our infinitely variable tooling. The flat can be at any angle.

3mm contact gap

Technical data on pages 4 & 5

C 9 5 01 D A

TERMINAL SERIES POSITIONS CIRCUIT SPINDLE BODY

► TERMINAL	► SERIES	► POSITION	► CIRCUIT	► SPINDLE
C 		2 Switching positions	9100 switches offer almost infinite switching options For this reason it is impractical to show all the options available The table below gives an example of a 5 position switching sequence: OFF, 1, 1+2, 1+2+3, 1+2+3+4	A
6.3 x 0.8	9	3 Switching positions		B
H 		4 Switching positions		C
4.8 x 0.8		5 Switching positions		D
For approval information on H terminals, contact the factory		6 Switching positions		M
Simple circuits may not use all terminals. Unnecessary terminals may be omitted.				N
				P
				R
				S
				L supplied without spindle

9201	9202	9203	9204	9301	9304	9305
OFF, 1	OFF, 1+2	OFF, 3	OFF, 1+3	OFF, 1, 1+2	1+3, OFF, 2+4	1, OFF, 2
9312	9313	9401	9402	9403	9404	9405
OFF, 2+3, 2+3+4	OFF, 3, 3+4	OFF, 1, 2+3, 1+3	OFF, 1, 1+2, 1+2+3	OFF, 1, 1+4, 1+2+4	OFF, 1+3, 1+4, 1+3+4	OFF, 1+4, 2+4, 3+4
9407	9408	9409	9411	9414	9419	9421
OFF, 1, 2, 3	1, 2, 3, 4	OFF, 3, 4, 3+4	OFF, 4, 1+4, 1+2+4	OFF, 1, 3, 1+3	OFF, 1+2, 1+4, 1+2+3+4	OFF, 1+2, 1+4, 1+2+4
9422	9423	9501	9503	9504	9505	9509
OFF, 1, 2, OFF	OFF, 3, 1+3, 1+2+3	OFF, 1, 1+2, 1+2+3, 1+2+3+4	OFF, 1, 2, 1+3, 1+3+4	OFF, 1+4, 1+3, 2+3, 1+2+3	OFF, 1, 1+2, 1+3, 1+2+3	OFF, 4, 1+4, 3+4, 1+3+4

BODY

A
Standard 2 hole fixing

Recommended fixing
2 off No4 / 3.0mm self tapping screws
5.0mm min penetration into switch body

Snap together body sections withstand >1.0Nm separation force

Stacked Switches
For more complex switching a second switch may be stacked on the first

For all options call the factory

OPTIONS

Anti-rotation stops
May be fitted at any of the index positions to limit the maximum angle of rotation

Panel clearance
A spacer can be fitted to the switch body to increase the clearance between the mounting panel and switch terminals

DIMENSIONS (mm)

Note
In the circuits on this page, the symbol ● shows the position of the switch cam, NOT the position of the spindle flat

9000 Rotary Switches

For Foot Spas 2A 250Vac



2A 250Vac T85



UL 2A 250Vac, 65°C, file E45221

μ contact gap

Technical data on pages 4 & 5

A 4-position single pole rotary switch.

All nylon construction, threaded neck and flattened 6.0mm dia. spindle.

Positive detent action, 90° between index positions.

Stops available to restrict rotation.

Various circuits may be obtained by changing the supply and load connections or by omission of one or two terminals.

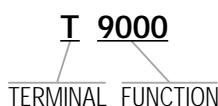
Line and loads may be connected to any terminals.

Any three of the four contacts are always connected.

Illustrated loads and line are for example only.

Suitable for class II appliances.

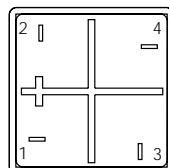
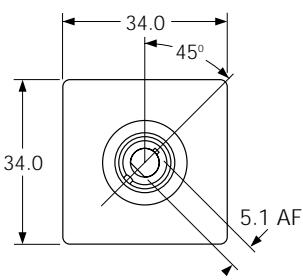
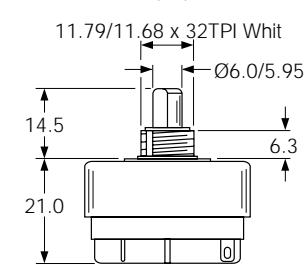
Patent app.



T T9000 00 ---

TERMINAL	FUNCTION	BODY	OPTIONS
T	9000 Position 1 <i>Viewed from terminal side</i> Position 3 	Panel Cut-out 	Rotation Stops Can be specified to limit the number of switching positions

Dimensions (mm)



0600 Lever Switches 1A 250Vac

In house test 1A 250Vac
10A 6/24Vdc

3mm contact gap
Technical data on pages 4 & 5



C0600HD - - -



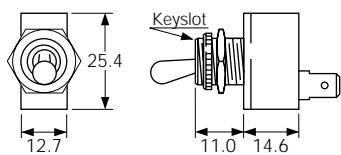
C0600CC - - -

C 0600 H D ---
TERMINAL FUNCTION ACTUATOR BODY OPTIONS

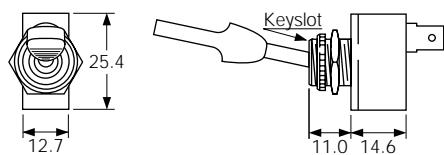
► TERMINAL	► FUNCTION	► ACTUATOR	► BODY	► OPTIONS
C	0600 ON - OFF	C Chromed brass (0600) U Nylon (0600) G Nylon (0600) H Nylon (0600) S Chromed brass stem/ nylon paddle (0602 only) 	D Nylon neck and top plate (Used with actuator codes U, G and H) C Metal neck and top plate (Used with actuator codes C and S) Panel thickness - 3.5mm Back nut must be fitted Fixing nuts (Standard is M506 & T92) T5 Hex brass M506 Hex nylon T92 Knurled brass M279 Knurled nylon 	Cover M331 (C Actuator only) Seal M539 (C,H & U Actuators) Actuator visible Cover M1080 (C Actuator only)
0600 ON - OFF (momentary ON)				Covers have internal nylon nuts

Dimensions (mm)

0600 (U actuator shown)



0602



3900 Splashproof Metal Lever Switches 16A 250Vac



16(4)A 250Vac T85 (3900 & 3950)
10(4)A 250Vac T85 (All other circuits)
 UL CSA 20A 125/277Vac (ON-OFF Circuits)
UL CSA 16A 125/277Vac (Other Circuits)
UL CSA 7A 72Vdc, 14A 36Vdc
UL 250Vac 1hp, 125Vac 1/2hp
UL 85°C, file E45221, CSA file LR10990

Inrush rating - Contact factory for details

Approvals and ratings vary with function
3mm contact gap except where marked μ
Integral O-ring neck seal
Technical data on pages 4 & 5

C 3900 B A ---
TERMINAL FUNCTION ACTUATOR BODY OPTIONS

► TERMINAL	► FUNCTION	► ACTUATOR
C 6.3 x 0.8	Single pole 3900 •— ON - OFF	Double pole 3950 •— ON - OFF
S Screw & clamp available for On - Off switches only	3901 ↑ •— ON - OFF (momentary ON) 3902 ↓ •— ON - OFF (momentary OFF)	3951 ↑ •— ON - OFF
T Ø3.1 Solder	3910 •—• ON - ON 3911 ↑ •—• ON - ON (momentary 1 side) 3920 •—• ON - OFF - ON μ 3921 ↑ •—• ON - OFF - ON μ (momentary 1 side) 3922 ↑ •—•↑ ON - OFF - ON μ (momentary 2 sides)	3952 ↑ •— ON - OFF 3960 •—• ON - ON 3961 ↑ •—• ON - ON 3970 •—• ON - OFF - ON μ 3971 ↑ •—• ON - OFF - ON μ (momentary 1 side) 3972 ↑ •—•↑ ON - OFF - ON μ (momentary 2 sides)
		 17.5 Finish is nickel plate



C3900BA ---



C3920BA ---



Guard R17-10

Anti-rotation tab can be specified
for guard fitted in On or Off position



C3950BB ---

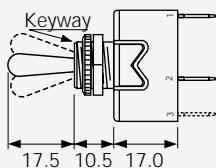


C3972BB ---

► BODY

A

Without terminal barrier
Single pole



► OPTIONS

Neck Seal M539

Actuator is visible



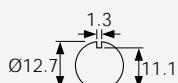
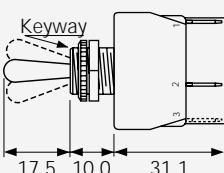
Cover M1080



Covers have internal nylon nuts

B

With terminal barrier
Double pole only

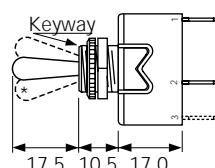
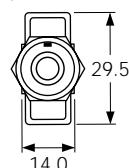


Panel hole (all types)

DIMENSIONS (mm) * Indicates ON position (for On - Off switches)

Single Pole

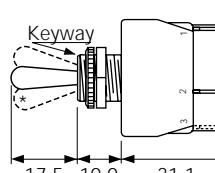
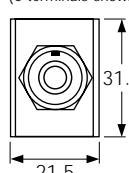
(C terminals shown)



Optional
P232 plate
SP or DP

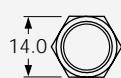
Double Pole

(C terminals shown)



Fixing nuts

Nickel plated brass are supplied



Hex Back nut



Knurled Front nut

Panel thickness 4.0 with backnut

1700 & 1750 Lever Switches

16A 250Vac Single and Double Pole



16(4)A 250Vac T85



UL 20A 250Vac Non Ind (Single pole)

UL 16A 250Vac Non Ind (Double pole)

UL CSA (2 pos types) 250Vac 1hp, 125Vac 1/2hp

UL CSA (3 pos types) 250Vac 1/2hp, 125Vac 1/4hp

CSA 16A 250Vac Non Ind

UL 85°C, file E45221, CSA file LR10990

UL and CSA N/A on momentary types

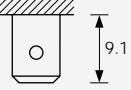
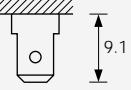
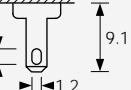
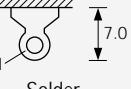
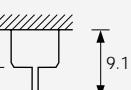
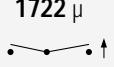
In house test Inrush 36A to EN61058-1 & 20A 28Vdc

Selective "A, B, C" and "Off, A, A+B" circuits at 5 amp also available

3mm contact gap except where marked μ

Technical data on pages 4 & 5

C 1750 H O ---
TERMINAL FUNCTION ACTUATOR BODY OPTIONS

► TERMINAL	► FUNCTION	► ACTUATOR	
C  6.3 x 0.8	Single pole  1700 ♦ 	Double pole  1750 	
H  4.8 x 0.8	1710 μ ♦ 	1760 μ 	
K  2.0 x 0.8	1720 μ ♦ 	1770 μ 	
T  Solder	1721 μ 	R  13.8	
X  PCB 0.8 Sq	1722 μ 	The switch is on between centre terminals (2 & 5) and the terminals over which the lever is positioned	



C1700RO ---



C1700HO ---



C1760RO ---



C1750HO ---

BODY		OPTIONS		DIMENSIONS (mm)	
0 Single pole		Neck Seal M539 Rubber -57T145 (H & R Actuators) Actuator visible			Single Pole (C terminals shown)
0 Double pole		Cover M1080 Rubber -57T145 (R Actuator only)			Double Pole (C terminals shown)
		Fixing nuts (Standard is M506 & T92) T5 Hex brass M506 Hex nylon			
Panel thickness (Max) Both nuts - 3.5mm Less backnut - 6.5mm		T92 Knurled brass			
		M279 Knurled nylon			

Technical Information - Indicators

The majority of Arcolectric indicator lights can be supplied with alternative light sources:

Neon, Fluorescent, Filament lamp or LED.

NEON and FLUORESCENT LAMPS

Colours

Red, Amber and Clear neon, Green fluorescent.

Maximum striking voltages

Standard brightness types 65Vac 90Vdc,

High brightness types 85Vac 135Vdc.

High brightness types are usually fitted.

Life

Typically 25,000 hours (Green fluorescent lamps 20,000 hours).

(Measured to a point when the light output of the lamp is half its original level.)

The end of life for a neon lamp is not usually a sudden failure.

False signals due to long wiring

It is possible for neon or fluorescent tubes to glow when they should be off. The false signal is caused by the capacitance effect of fairly long wiring to the indicator being adjacent to other live cables.

This effect can be prevented in most cases by fitting a 100K resistor across the supply wires close to the indicator assembly.

MATERIALS

Moulded bodies and bases	Nylon 6.6
Metal bodies and bezels	Chrome plated brass (except #)
Lenses	Polycarbonate
Terminals (most types)	Brass (electro-tin plated)
Terminals (exceptions)	Brass (flash silver* or nickel** plated)
Threaded metal nuts	Brass (nickel plated on 0275/7)
Other fixings	Call factory for details

* R9, 0061, 0062, 0430, 0480, 1090, 1091, 6030, 7030, 8630, 8580

** # 3130, 3160, 3161, 3221 have nickel plated terminals with steel screws and plated polyamide bezel trims

TEMPERATURE RATING

Authority	with Terminals	with Wire leads	
		PVC	SILICONE
European	T125°C	T105°C	T125°C
UL	T65/75°C	T65/75°C	

SYMBOLS



Terminals
C 6.3, H 4.8, K 2.8



Wire leads
200mm long Standard



Solid wires
LED only



Panel hole size



Panel thickness



Temperature rating

Indicator Lights

(Neon, LED and Filament Lamp)



UL file E63363

CSA file LR29381

Colours and voltages:

Neon	Red, Amber, Green, Clear 100/130V (marked 110V), 200/250V (marked 230V)
LED	Red, Yellow, Green 2.0/2.2V Resistors for other voltages available
Filament lamp	Red, Amber, Green, (Clear & Blue check availability) 6V, 12/14V, 24/28V

To create a catalogue number:

Refer to the 2 columns below (terminal and type)

Then state:

Lens colour, voltage and whether neon, LED or filament lamp

TERM	TYPE	PANEL & °C	DIMENSIONS (mm)
C 6.3	(C) 0145 AA	 5.8 3.0max page 66	
L	(L) 1041 00	 Chrome bezel 6.3 6.3max page 66	
L	(L) 1045 00	 Chrome bezel available 6.3 10.0max page 66	
L	(L) 0245 00	 Chrome bezel available 7.1 6.3max page 66	
L	L 2950 00	 Chrome bezel available 8.0 0.8-1.6 page 66	
L	(L) 0195 BB	 8.0 0.8-3.0 page 66	

Indicator Lights

(Neon, LED and Filament Lamp)



UL file E63363

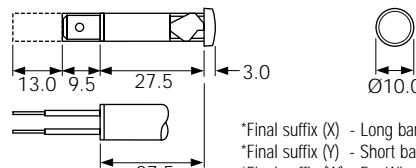
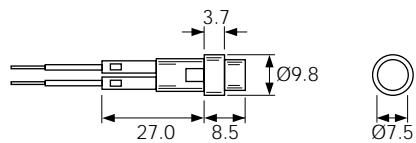
CSA file LR29381

Colours and voltages:

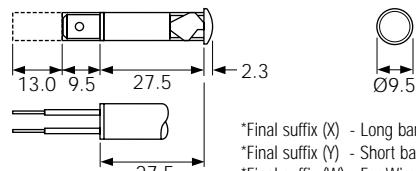
Neon	Red, Amber, Green, Clear 100/130V (marked 110V), 200/250V (marked 230V)
LED	Red, Yellow, Green 2.0/2.2V Resistors for other voltages available
Filament lamp	Red, Amber, Green, (Clear & Blue check availability) 6V, 12/14V, 24/28V

TERM	TYPE	PANEL & °C
L	L 2951 00	Chrome bezel available Ø 8.0 0.8-1.6 page 66
L K 2.8 H 4.8	(H) 0568 A(*)	Deep lens profile Ø 8.0 0.8-3.5 page 66 (VDE at T100) NEW
L K 2.8 H 4.8	(H) 0568 B(*)	Shallow lens profile Ø 8.0 0.8-3.5 page 66 (VDE at T100) NEW
L	(L) 0569 AW	Ø 9.0 0.8-2.5 Call factory Ø 9.0 0.8-2.5 Call factory NEW
L K 2.8 H 4.8 C 6.3	(C) 0273 00	Ø 9.0 2.0 max page 66 Ø 9.0 2.0 max page 66
L K 2.8 H 4.8 C 6.3	(C) 0278 00	Ø 9.0 2.0 max page 66 Ø 9.0 2.0 max page 66

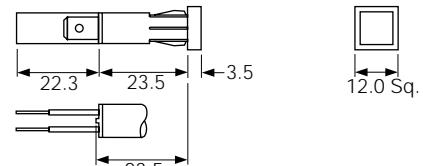
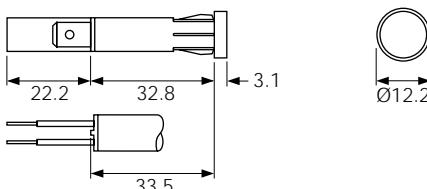
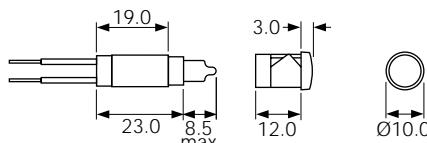
DIMENSIONS (mm)

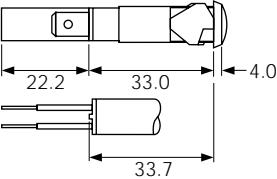
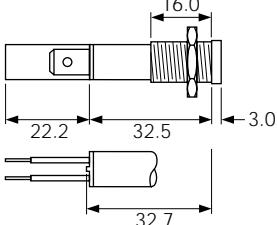
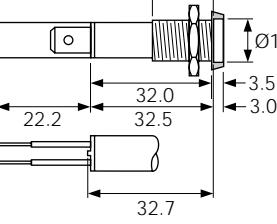
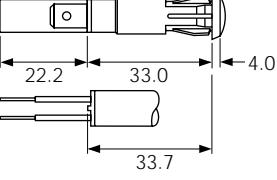
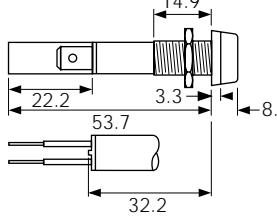
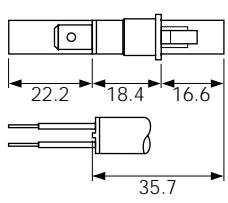


*Final suffix (X) - Long barrier
*Final suffix (Y) - Short barrier
*Final suffix (W) - For Wires



*Final suffix (X) - Long barrier
*Final suffix (Y) - Short barrier
*Final suffix (W) - For Wires



► TERM	► TYPE	► PANEL & °C	DIMENSIONS (mm)
L	(C) 0276 AA	Ø 9.5 0.8-2.8 page 66	
K 2.8			
H 4.8			
C 6.3			
L	(C) 0275 00	Ø 10.0 12.0 max page 66	
K 2.8			
H 4.8			
C 6.3			
L	(C) 0275 00 Chrome bezel	Ø 10.0 11.5 max page 66	
K 2.8			
H 4.8			
C 6.3			
L	(C) 0276 00	Ø 10.0 2.8 max page 66	
K 2.8			
H 4.8			
C 6.3			
L	(C) 0277 00 Chrome bezel	Ø 10.0 12.0 max page 66	
K 2.8			
H 4.8			
C 6.3			
L	(C) 0273 LL	Ø 10.0 0.6-2.0 page 66	For sub-panel mounting, behind a facia 
K 2.8			
H 4.8			
C 6.3			

Indicator Lights

(Neon, LED and Filament Lamp)



UL file E63363

CSA file LR29381

Colours and voltages:

Neon	Red, Amber, Green, Clear 100/130V (marked 110V), 200/250V (marked 230V)
LED	Red, Yellow, Green 2.0/2.2V Resistors for other voltages available
Filament lamp	Red, Amber, Green, (Clear & Blue check availability) 6V, 12/14V, 24/28V

To create a catalogue number:

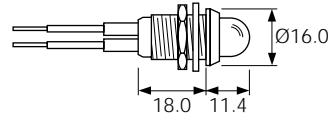
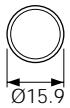
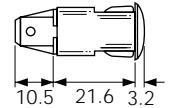
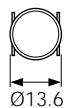
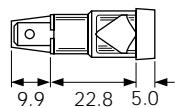
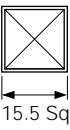
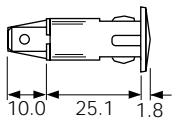
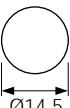
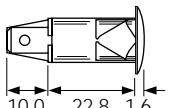
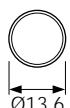
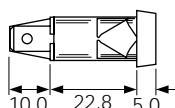
Refer to the 2 columns below (terminal and type)

Then state:

Lens colour, voltage and whether neon, LED or filament lamp

TERM	TYPE	PANEL & 'C
L	(C) 2820 00	Ø 12.0 0.75-2.0 page 66
K 2.8		
H 4.8		
C 6.3	 S D N F KEMA S UL S	
L	(C) 2821 00	Ø 12.0 or 12.7 Ø 12.0 = 0.8-2.5 Ø 12.7 = 1.1-2.5 page 66
K 2.8		
H 4.8		
C 6.3	 S D N F KEMA S UL S	
L	(C) 0586 00	Ø 12.5 0.8-1.5 page 66
K 2.8		
H 4.8		
C 6.3	 S D N F KEMA S UL S	
L	(C) 2870 00	Ø 12.7 0.75-2.0 page 66
K 2.8		
H 4.8		
C 6.3	 S D N F KEMA S UL S	
L	(C) 0589 00	Ø 12.7 0.8-1.5 page 66
K 2.8		
H 4.8		
C 6.3	 S D N F KEMA S UL S	
L	L 0081 00	Chrome bezel Ø 12.7 9.5 page 66

DIMENSIONS (mm)



► TERM	► TYPE	► PANEL & °C	DIMENSIONS (mm)
L	(C) 0177 00 Chrome bezel	 Ø 12.7 12.0max page 66	 Ø14.6
K 2.8			
H 4.8			
C 6.3			
L	(C) 0067 00 Chrome bezel	 Ø 12.7 1.14max page 66	 Ø16.0
K 2.8			
H 4.8			
C 6.3			
L	(C) 0180AA	 Ø 12.7 19.0max page 66	 Ø15.0
K 2.8			
H 4.8			
C 6.3			Starlock fixing
L	(C) 0180BB	 Ø 13.5 0.9-1.14 page 66	 Ø16.3
K 2.8			
H 4.8			
C 6.3			
L	(C) 0579 00	 Ø 14.0 2.5max page 66	 Ø15.9
K 2.8			
H 4.8			
C 6.3			

Indicator Lights

(Neon, LED and Filament Lamp)



UL file E63363

CSA file LR29381

Colours and voltages:

Neon	Red, Amber, Green, Clear 100/130V (marked 110V), 200/250V (marked 230V)
LED	Red, Yellow, Green 2.0/2.2V Resistors for other voltages available
Filament lamp	Red, Amber, Green, (Clear & Blue check availability) 6V, 12/14V, 24/28V

To create a catalogue number:

Refer to the 2 columns below (terminal and type)

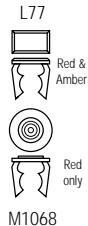
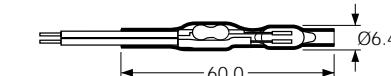
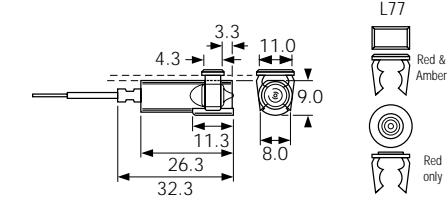
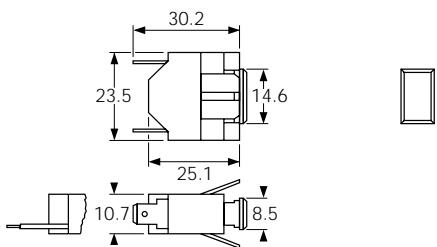
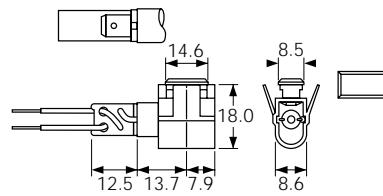
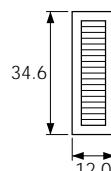
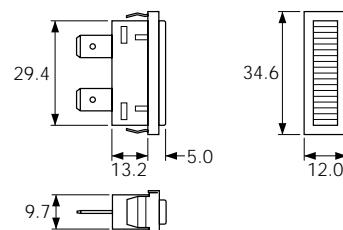
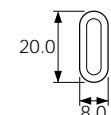
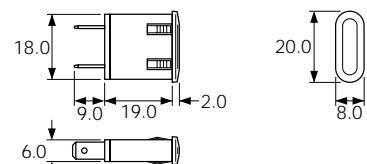
Then state:

Lens colour, voltage and whether neon, LED or filament lamp

* Call factory for details

► TERM	► TYPE	► PANEL & °C
H 4.8	H 0581 AY NEW	 page 66
C 6.3	C 0582 AY NEW	 page 66
L	L 0195 00 	 page 66
L	(C) 0196 AA 	 page 66
L	L 0234 00 	 page 66
L	L 0233 00	 page 66

DIMENSIONS (mm)



M1068

Neon tube, resistor and flexible lead assembly,
protected by "shrunk on" transparent sleeving

Indicator Lights

(To match 8500, 8600, R13, 1500, 1550, 5500, 6000, 8300 and 7000 switches)



UL file E63363

CSA file LR29381

Colours and voltages:

Neon

Red, Amber Green, Clear
100/130V (marked 110V), 200/250V (marked 230V)

LED

Red, Yellow, Green
2.0/2.2V Resistors for other voltages available

Filament lamp

Red, Amber, Green, Clear and Blue
6V, 12/14V, 24/28V

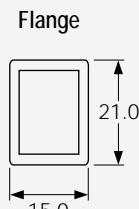
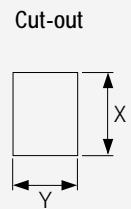
For full product details, to create a catalogue number or to order:

Refer to the catalogue page shown against each item

TERM	TYPE	DIMENSIONS (mm)		
H 4.8		<i>Full product details on pages 10-11</i>	Cut-out	Flange
T		<i>Full product details on pages 12-13</i>	Cut-out	Flange
X		<i>Full product details on pages 16-17</i>	Cut-out	Flange
H 4.8		<i>Full product details on pages 18-19 & 20-21</i>	Cut-out	Flange
C 6.3		<i>Full product details on pages 26-27</i>	Cut-out	Flange
H 4.8		<i>Full product details on pages 38-39</i>	Cut-out	Flange

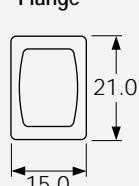
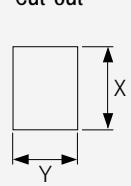
Full product details on pages 10-11

Body Code	Panel thickness	Cut-out X	Cut-out Y
B	0.75-1.25	19.1/19.2	12.9/13.0
	1.25-2.0	19.3/19.4	12.9/13.0
	2.0-3.0	19.7/19.8	12.9/13.0



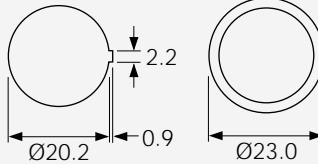
Full product details on pages 12-13

Body Code	Panel thickness	Cut-out X	Cut-out Y
B	0.75-1.25	19.1/19.2	12.9/13.0
	1.25-2.0	19.3/19.4	12.9/13.0
	2.0-3.0	19.7/19.8	12.9/13.0



Full product details on pages 16-17

Snap fixing in panels thickness up to 3.0



Approvals details - contact the factory

Cut-out

Flange

Full product details on pages 18-19 & 20-21

Body Code	Cut-out Y	Cut-out X	Flange Y	Flange X
A	12.2/12.3	27.2/27.3	14.0	30.2
B	11.0/11.1	30.0/30.1	14.0	33.4
L	11.0/11.1	30.0/30.1	14.0	31.9
R	14.0/14.1	28.5/28.6	17.0	31.5

Cut-out

Flange

6030 - L body & C terminals only

Full product details on pages 26-27

Body Code	Cut-out Y	Cut-out X	Flange Y	Flange X
A	22.3/22.4	27.2/27.3	25.0	30.2
B	22.1/22.2	30.0/30.1	25.0	33.4
L	22.1/22.2	30.0/30.1	25.0	32.0
R	23.0/25.4	28.4/28.5	28.9	33.2

Cut-out

Flange

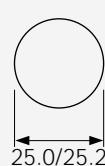
6030 - L body & C terminals only

Full product details on pages 38-39

Body Code	Cut-out	Flange
H	Ø25.0/25.2	Ø28.0

Cut-out

Flange



Neon & LED Indicator Lights Sealed to IP52 and IP54



Colours and voltages:

Neon	Red, Amber, Green 120/230Vac 0.5W (Red base)
LED	Red, Amber, Green 28Vac/dc 1W (Green base)

Neon versions feature integral current limiting & ghost lighting resistors
LED versions have rectifier diodes & resistors for direct connection to 28Vac/dc

TERM	TYPE	PANEL & °C
Recessed Screw	3130 No bezel	 Factored product
Recessed Screw	3160 Black bezel	 Factored product
Recessed Screw	3161 Satin chrome style bezel	 Factored product
Recessed Screw	3221 Large black bezel	 Factored product

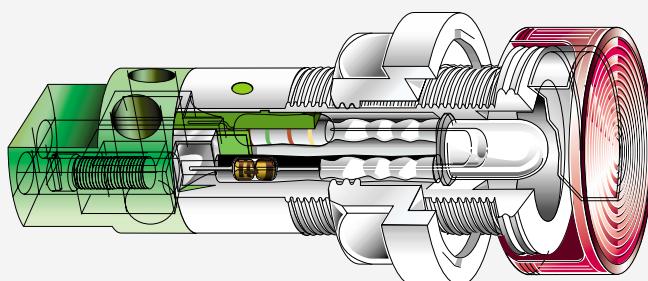
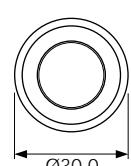
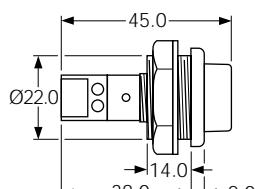
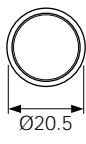
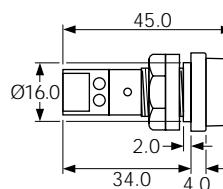
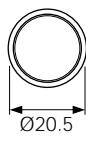
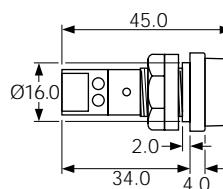
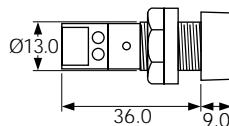
To order

Select a number from the "type" column

Then state:
Lens colour, voltage and whether neon or LED

All versions have recessed screw terminals
IP52 is standard. A panel sealing washer is available for IP54

DIMENSIONS (mm)



Select the version most suitable for your application
from the 4 types shown

Or call the factory for availability
to your special requirements

Low Voltage Lampholders

Colour and voltage:

These lampholders are suitable for up to 50V max.
Bulbs will be supplied (dependent on order quantity)
if a voltage is specified

Colours - Red, Amber, Green, (Clear & Blue, check availability)

To create a catalogue number:

Refer to the 2 columns below (terminal and type)

Then state:

Lens colour and voltage

TERM	TYPE	PANEL & °C	DIMENSIONS (mm)
T	T0061 AO (LES)	 	
C 6.3	C0067 OO (BA7s) Chrome bezel	 	
T	T0062 AO (Midget flange) Chrome bezel	 	
	T0063 AO (LES) Chrome bezel		
T	T0062 MO (Midget flange)	 	
	T0063 MO (LES)		
S	S0095 00		

Paired Architectural lampholders with philinea lamp

LED Lamps and LED Lampholders

LED Lampholders can be supplied with or without lamps

Colours:

Red, Yellow and Green LEDs
(High Intensity is standard. Option of extra super bright)

Voltages:

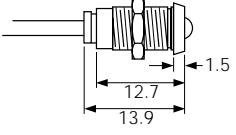
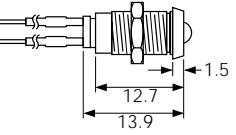
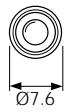
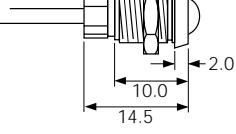
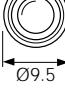
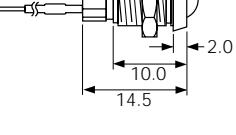
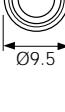
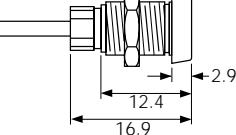
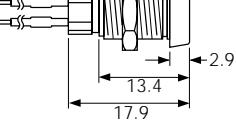
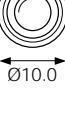
LEDs are available for direct connection to 2.0/2.2V. or 12Vdc
For other voltages contact the factory

To create a catalogue number:

Refer to the 2 columns below (terminal and type)

Then state:

LED colour and voltage and body finish (Black or Chrome)

TERM	TYPE	PANEL & C	DIMENSIONS (mm)
W 	(W) 1047 00 	 6.3  6.3max  T85	 
A 	3mm LED		
L 	L 1047 00 	 6.3  6.3max  T85	 
W 	(W) 1048 00 	 8.0  5.5max  T85	 
A 	5mm LED		
L 	L 1048 00 	 8.0  5.5max  T85	 
W 	(W) 1050 00 	 8.0  7.0max  T85	 
A 	5mm LED with focusing reflector		
L 	L 1050 00 	 8.0  7.0max  T85	 
A 	5mm LED with focusing reflector		

LED Lamps and LED Lampholders - Designed to IP66

LED Lampholders can be supplied with or without lamps

Colours:

Red, Yellow and Green LEDs

(High Intensity is standard. Option of extra super bright)

Voltages:

LEDs are available for direct connection to 2.0/2.2V. or 12Vdc

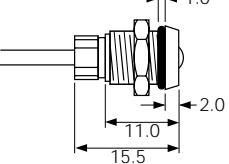
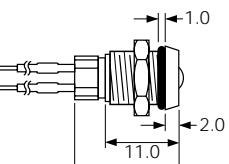
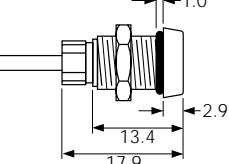
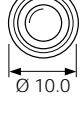
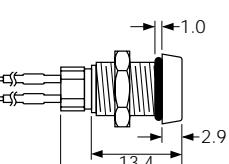
For other voltages contact the factory

To create a catalogue number:

Refer to the 2 columns below (terminal and type)

Then state:

LED colour and voltage and body finish (Black or Chrome)

TERM	TYPE	PANEL & °C	DIMENSIONS (mm)
W LED fitted	(W) 1048 OA Designed to IP66 	Ø 8.0 5.5max T85	 
A LED not fitted	5mm LED		
L LED & Wires fitted	L 1048 OA Designed to IP66 	Ø 8.0 5.5max T85	 
W LED fitted	(W) 1050 OA Designed to IP66 	Ø 8.0 7.0max T85	 
A LED not fitted	5mm LED with focusing reflector		
L LED & Wires fitted	L 1050 OA Designed to IP66 	Ø 8.0 7.0max T85	 

Properties

Sealing

O-ring sealing equivalent to IP66, of both the LED to bezel, and bezel to panel is available where shown

LED wires or PVC covered wire leads

125mm min length wires, 6.3mm standard strip
Alternative colours, length and strip available

Polarity

The nylon base mouldings are polarity marked

Body Material and Finish

Chromed brass or Black oxide coated brass

Lampholders only

Items prefixed 'A' are supplied without LEDs

Low Voltage Lampholders

with sealing option

Bulbs will be supplied (dependant on order quantity)
if a voltage is specified

These lampholders are suitable for up to 50V max.

Colours - Red, Amber, Green, (Clear & Blue, check availability)
Brass bodies have polished chrome finish



C1090FP - - -

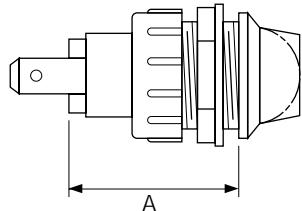


C1090FL - - -

C 1090 F A - - -
TERMINAL LAMP CAP LENS BODY VOLTAGE, COLOUR, ETC

► TERMINAL	LAMP CAP	LENS	THREADED BODY																					
C 	1090 E10 	F Flat 	Panel Hole Dia. Body Material Dimension A <i>for E10 types</i> <table border="1"> <tr> <td>A 19.0</td> <td>Brass</td> <td>35.0</td> </tr> <tr> <td>D 19.0</td> <td>Brass</td> <td>30.2</td> </tr> <tr> <td>E 19.0</td> <td>Nylon</td> <td>30.2</td> </tr> <tr> <td>*P 19.0</td> <td>Nylon (+ chrome trim)</td> <td>30.2</td> </tr> <tr> <td>G 19.0</td> <td>Brass</td> <td>24.6</td> </tr> <tr> <td>H 19.0</td> <td>Nylon</td> <td>24.6</td> </tr> <tr> <td>L 25.4</td> <td>Brass</td> <td>30.2</td> </tr> </table>	A 19.0	Brass	35.0	D 19.0	Brass	30.2	E 19.0	Nylon	30.2	* P 19.0	Nylon (+ chrome trim)	30.2	G 19.0	Brass	24.6	H 19.0	Nylon	24.6	L 25.4	Brass	30.2
A 19.0	Brass	35.0																						
D 19.0	Brass	30.2																						
E 19.0	Nylon	30.2																						
* P 19.0	Nylon (+ chrome trim)	30.2																						
G 19.0	Brass	24.6																						
H 19.0	Nylon	24.6																						
L 25.4	Brass	30.2																						
	1091 BA9s 	V Domed 	Panel Hole Dia. Body Material Dimension A <i>for BA9s types</i> <table border="1"> <tr> <td>B 19.0</td> <td>Brass</td> <td>35.0</td> </tr> <tr> <td>C 19.0</td> <td>Nylon</td> <td>35.0</td> </tr> <tr> <td>*Q 19.0</td> <td>Nylon (+ chrome trim)</td> <td>35.0</td> </tr> <tr> <td>M 25.4</td> <td>Brass</td> <td>41.8</td> </tr> </table> <p>All E10 and BA9s types are suitable for panel thickness up to 6.2mm. Some versions will accept panels up to 11.2mm thick</p>	B 19.0	Brass	35.0	C 19.0	Nylon	35.0	* Q 19.0	Nylon (+ chrome trim)	35.0	M 25.4	Brass	41.8									
B 19.0	Brass	35.0																						
C 19.0	Nylon	35.0																						
* Q 19.0	Nylon (+ chrome trim)	35.0																						
M 25.4	Brass	41.8																						
		L No lens 																						

DIMENSIONS mm



OPTIONS

Sealing

Neoprene washers to seal between bezel and panel (W23) and lens and bezel (W24) to give a seal equivalent to IP66 are available on most versions

F0445 MO

P.V.C. Insulating terminal cover.



*Note P and Q body codes denote a nylon body fitted with a chrome bezel trim (previously **F0413PO**)

IEC Connectors & NEMA Receptacles



10A 250Vac

UL CSA 10A 250Vac UL 65°C

Terminal data shown at section end

For stock availability & additional options call the factory

To order:

State type number, connector terminal code, switch terminal code (if applicable), and for snap-in items, the panel thickness. Stocked items are for 1.0mm panels

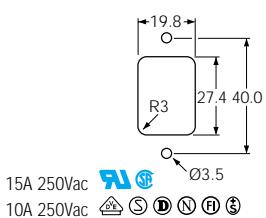
0711-1S LS K 1.0mm

TYPE TERMINAL (connector) TERMINAL (switch) PANEL thickness

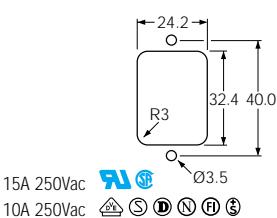
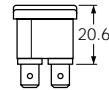
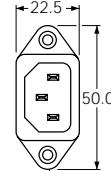
DIMENSIONS (mm)

View below is at Y

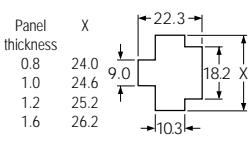
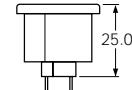
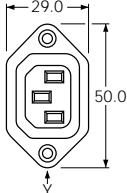
TYPE	TERMINAL
0707-1-C (2k min order)	S 2.5 Solder N 4.0 Solder Q 4.8 Tab W 6.3 Tab
Inlet	
0708-1-C	N 4.0 Solder Q 4.8 Tab W 6.3 Tab P PCB
Outlet	
0709-P	L 4.0 Solder Q 4.8 Tab
Outlet	
0710-P	V12 Solid Wire V16 Solid Wire
Outlet	
0711-1S	LS 2.8 Solder Q 4.8 Tab/Solder T 3.0 Solder K 2.8 Solder
Inlet with Voltage Select	
0711-P (2k min order)	S 2.5 Solder N 4.0 Solder Q 4.8 Tab W 6.3 Tab
Inlet	



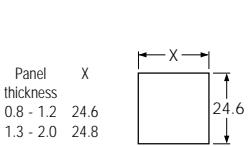
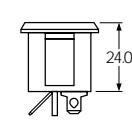
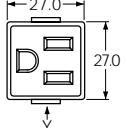
15A 250Vac
10A 250Vac



15A 250Vac
10A 250Vac

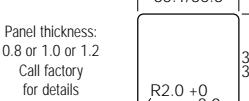
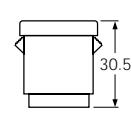
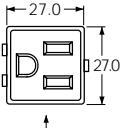


15A 250Vac

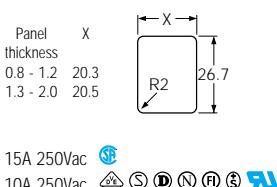
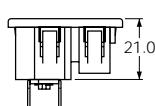
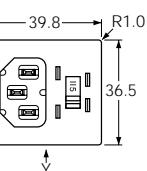


0710-PV16 is 13A 250Vac. 0710-PV12 is 15A 250Vac

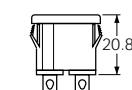
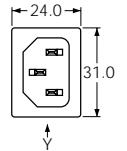
SP 2 position switch is standard



Rating/approval details on request



15A 250Vac
10A 250Vac



IEC Connectors & NEMA Receptacles



10A 250Vac

UL CSA 10A 250Vac UL 65°C

Terminal data shown at section end

For stock availability & additional options call the factory

TYPE	
0717-1-P	
0717-C	
0717-2-C (2k min order)	
0717-2-P (2k min order)	

TERMINAL	
S 2.5 Solder	
LS 2.8 Solder	
Q 4.8 Tab	
W 6.3 Tab	

To order:

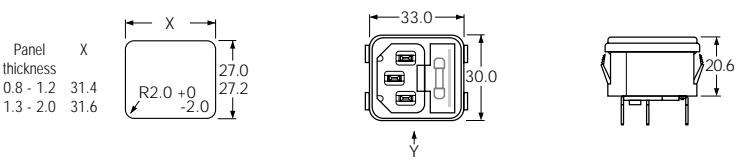
State type number, connector terminal code, switch terminal code (if applicable), and for snap-in items, the panel thickness. Stocked items are for 1.0mm panels

0717-1S Q T 1.0mm

TYPE TERMINAL (connector) TERMINAL (switch) PANEL thickness

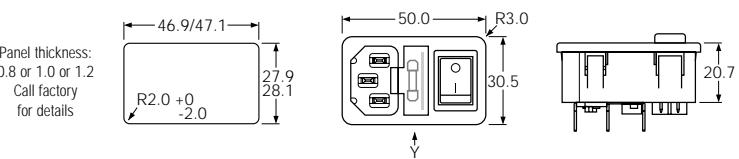
DIMENSIONS (mm)

View below is at Y



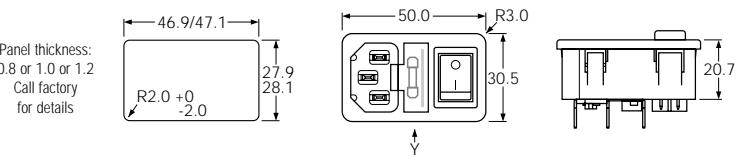
10A 250Vac

DP non-illuminated switch is standard

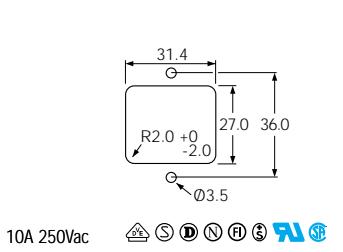


10A 250Vac

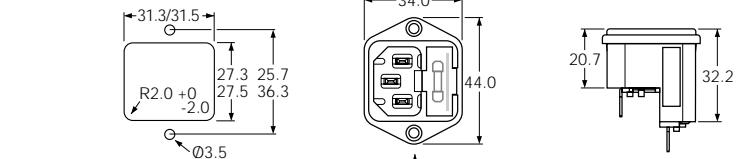
DP illuminated switch is standard



10A 250Vac

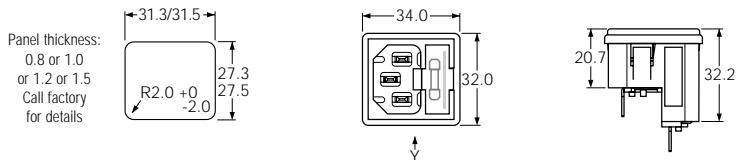


0717-2-C For applications (eg medical equipment) where both live & neutral feeds must be fused



10A 250Vac

0717-2-P For applications (eg medical equipment) where both live & neutral feeds must be fused



10A 250Vac

TYPE	TERMINAL	DIMENSIONS (mm)	
0721-P (2k min order)	S Solder	 Inlet Panel thickness 0.8 - 1.3 2.5A 250Vac 	 View below is at Y
0722-C (2k min order)	Q 4.8 Solder W 6.3 Tab	 Inlet 20A 125Vac 16A 250Vac 	
0723-C (2k min order)	Q 4.8 Solder W 6.3 Tab	 Outlet 20A 125Vac 16A 250Vac 	

Technical data

Mouldings V2 (VO option)
 Connectors Tin plated solid brass
 Terminals Silver plated

Terminal dimensions

For Connectors

S	N	Q	W	P	L	LS	V12	V16	Slide	Slide	Rocker
2.5mm Solder	4mm Solder	4.8mm Solder/ Fast on	6.3 Fast on	PCB	Solder	2.8mm Solder	12-14 AWG Solid Wire	16 AWG Solid Wire	Solder	2.8mm Solder	4.8mm Solder

Note: Designated solder terminals should not be fitted with "Push on", "QD" or "Fast on" type cable connectors

Fuseholders 5 x 20 mm



6.3A 250Vac (max fuse rating*) T-55 to T+70 (ambient)

Maximum dissipation wattage: 1.5W

UL 94V2 UL file E92075 CSA file LR44770

These products comply with safety category PC2

*Users should be aware of the de-rating factors published by specialist manufacturers of fuses

These fuseholders are fitted with combination (solder / 2.8) mid-body terminals
It has not been possible to show both views here



T 0332 RA -----
TERMINAL BODY & CAP PANEL HOLE OPTIONS



M520
Terminal Cover



A0033 00
In-line 5 x 20 fuseholder
Call factory for rating details

► TERMINAL	► BODY AND CAP	► PANEL HOLE	DIMENSIONS (mm)
T Solder	0332 Finger release 	RA Panel thickness 0.8-4.5mm	0332 (T terminal shown) Panel thickness 0.8-4.5mm
B 2.8 x 0.5	0333 Tool release 	RD Panel thickness 0.8-4.5mm	0333 (T terminal shown) Panel thickness 0.8-4.5mm
	0340 Tool release 	 Panel thickness 0.8-2.0mm	0340 (T terminal shown) Panel thickness 0.8-2.0mm
	0341 Tool release 	 Panel thickness 0.8-4.5mm	0341 (T terminal shown) Panel thickness 0.8-4.5mm

Fuseholders 6 x 30 mm (1 1/4" x 1 1/4")



16A 250Vac (max fuse rating*) T-55 to T+70 (ambient)

Maximum dissipation wattage: 2.5W

UL 94V2 UL file E92075 CSA file LR44770

These products comply with safety category PC2

*Users should be aware of the de-rating factors published by specialist manufacturers of fuses

Fuseholders with in-line termination have combination (4.8 / 6.3) terminals. It has not been possible to show both views here. Units with right angle terminals have user specified end terminals and combination mid-body terminals



T 0347 RA -----
 TERMINAL BODY & CAP PANEL HOLE OPTIONS

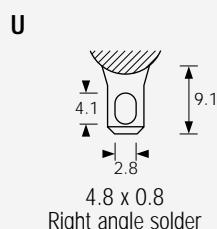
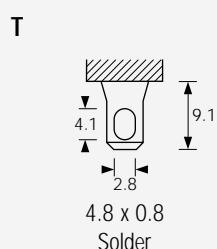
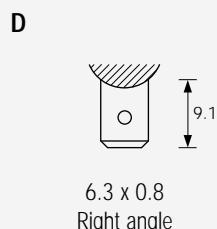
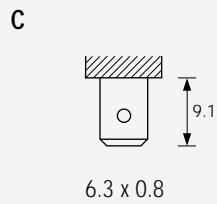


M873
Cover for C & T terminals



A0035 00
In-line 6 x 30 1 1/4" x 1/4" fuseholder
Call factory for rating details

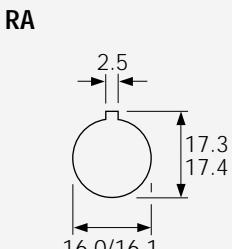
► TERMINAL



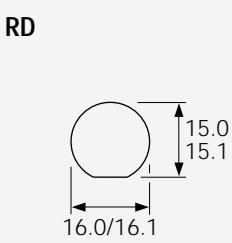
► BODY AND CAP



► PANEL HOLE

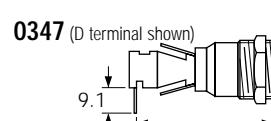
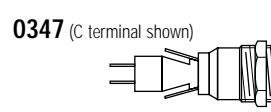
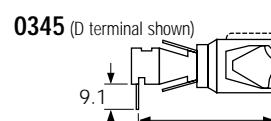
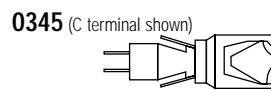


Panel thickness
0.8 - 2.0mm for snap-in
0.8 - 4.5mm for nut fixing



Panel thickness
0.8 - 2.0mm for snap-in
0.8 - 4.5mm for nut fixing

DIMENSIONS (mm)



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Conditions of sale

For the purposes of the following Conditions of Sale, the words "The Company" refer to Arcologic Switches plc.

CATALOGUES Catalogues, price lists and other advertising matter are an indication of the type of goods offered and no prices or other particulars contained therein shall be binding.

PRICES Quotations are open for acceptance within 30 days. Prices on orders issued within that period are guaranteed firm for three months from the date of formal acknowledgement. Deliveries extending beyond the initial six months will be invoiced at the prices shown in the Company's then current price list.

Notwithstanding any clauses attached to Customers' orders, the Company's formal acceptance of the order is made on the understanding that this clause applies and is accepted by the Customer unless expressly waived, in writing, by the Company.

PAYMENT Unless otherwise agreed in writing, payment in full is due immediately in respect of any goods delivered. Until payment is made in full, the goods shall remain the property of the Company, but the risk therein and all liability to third parties in respect thereof shall pass to the customer on delivery.

SETTLEMENT Credit terms can be arranged for customers taking regular deliveries of goods, such payment terms are 30 days from date of invoice, or such other terms as agreed and are strictly nett. For infrequent purchases and/or low value orders payment against a pro-forma invoice is required.

No discount is allowed for early payment or payment against a pro-forma invoice. Failure to pay in accordance with these terms will result in the Company instructing a third party to obtain settlement. Any costs incurred thereby will be charged to the Customer. The Company reserves the right to charge interest on overdue debts at a rate of 4% above HSBC Bank base rate.

DESPATCH Any times quoted for despatch are to be treated as estimates only and the Company shall not be liable for failure to despatch within such time. In all cases, whether a time for despatch be quoted or not, the time for despatch shall be extended by a reasonable period if delay in despatch is caused by instructions or lack of instructions from the Customer or by industrial dispute, or by any cause whatsoever beyond the reasonable control of the Company.

MINIMUM ORDER QUANTITY Please discuss your likely batch quantity requirements with our Sales department prior to ordering. On some items, ie coloured switches or special printing, MOQ's of 1000 or more may apply.

CARRIAGE The Company reserves the right to make nominal charges for handling, packaging and carriage on all orders.

DAMAGE OR LOSS IN TRANSIT If the Customer wishes the Company to make a claim on the carriers for a parcel damaged in transit, the Customer must notify the carriers and the Company within 3 working days of receipt. If a consignment fails to arrive within ten working days of the Customers' receipt of an advice note and invoice from the Company, the Customer should immediately notify the carrier and the Company. Claims can only be considered if made within this period. Shortage claims on consignments not damaged in transit should be made within seven working days.

REJECTION Unless otherwise agreed, goods rejected by the Customer as not complying with the contract must be advised within 7 working days of receipt.

DEFECTS AFTER DELIVERY The Company will make good by repair, or at the Company's option, by the supply of a replacement, defects which under proper use, appear in the goods within a period of twelve calendar months after the goods have been delivered, and arise solely from faulty design, workmanship or materials, always provided that the defective parts have been returned to the Company if it be so required.

The liability of the Company under this clause shall be in lieu of any warranty or condition implied by the law as to the quality or fitness for any particular purpose of the goods, and save as provided in this clause the Company shall not be under any liability, whether in contract, tort or otherwise, in respect of defects in goods delivered or for any injury (other than personal injury caused by the Company's negligence as defined in Section 1 of the Unfair Contract Terms Act 1977), damage or loss resulting from such defect or from any work done in connection therewith. Provided however, that nothing in this clause shall operate to exclude any warranty or condition implied by law as to the quality of the goods in the event that the goods when sold by the Customer or when sold by any person or persons to whom the Customer may sell the goods shall become the subject of a consumer sale as defined in the Supply of Goods (Implied Terms) Act 1973, except to the extent that any claim under such warranty or condition shall have arisen from any act or omission by the Customer or by any other person or persons selling the goods by way of a consumer sale.

UK HEALTH AND SAFETY ACT 1974 Detailed approval information is available on application. Approvals do not always cover every version of a component. Switches with metal levers (or metal fixing systems) do not comply with the latest standards on safety unless the fixing plate is reliably earthed. Product descriptions are, of necessity, abridged and users should always give full details of electrical load and environmental conditions so that a check can be made that the component is suitable for the application. Switch ratings are, unless otherwise stated, resistive at 250 Vac, T55. Transparent lenses on signal lamps, neon indicators and lit switches are moulded in polycarbonate, a material which is attacked by hydrocarbons.

ARBITRATION If at any time any question, dispute or difference whatsoever shall arise between the Customer and the Company in relation to or in connection with the contract, either party may give to the other party notice in writing of the existence of such question, dispute or difference and the same shall be referred to the arbitration of a third party to be mutually agreed upon, or failing agreement within 14 days of receipt of such notice, a party appointed by the president, at the time, of the UK organisation known as the Federation of British Electrotechnical and Allied Manufacturers' Associations. Any legal recourse requiring judiciary judgement shall take place through the courts and country of the Company's choice.

LEGAL CONSTRUCTION Unless otherwise agreed in writing, the contract shall in all aspects be construed and operate as an English contract and in conformity with English law.

STATUTORY AND OTHER REGULATIONS If the cost to the Company of performing its obligations under the contract, be increased or reduced by reason of the making or amendment after the date of tender of any law or of any order, regulation, or bye-law having the force of law that shall affect the performance of the Company's obligations under the contract, the amount of such increase or reduction shall be added to or deducted from the contract price as the case may be.

OVER RUNS Where products are manufactured as special for a Customer, for instance colour, marking or circuit, the Company reserves the right to despatch up to a maximum of 5% excess at the end of the order or at the completion of the schedule.

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