



## Solutions for appliance & electronic applications



technical  
data



rocker  
switches



lever  
switches



push  
switches



vandal  
resistant  
switches



snap-action  
& safety  
switches



slide  
switches



refrigerator  
switches



rotary  
switches



indicators



IEC  
sockets



fuseholders

appliance switches  
indicator lamps  
fuseholders  
IEC sockets

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# profile



## Arcoelectric worldwide

Arcoelectric Ltd, 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.

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

Arcoelectric Ltd is part of the Elektron PLC group of companies.

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**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.

μ = micro gap switch contacts <3mm.

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

# production

# Arcoelectric



## **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.



## **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.

## **Research & Development**

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

## **Specials**

For colour matching and special printing our flexible in-house production will provide a competitive solution.

**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 44, 47 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 0600 and 3900 actuators are plated brass
Actuator (transparent) . . . . .	Polycarbonate	
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 . . . . .	<100m $\Omega$ (at 12Vdc,1A) . . . . .	For 1100 & 2000 call factory
Contact resistance (fuseholders) new condition . . . . .	.5m $\Omega$ (average)	
Insulation resistance . . . . .	>20M $\Omega$	
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°K (UL 1054), max 55°K (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 $\pm 4^\circ$ overall (where applicable) . . . . .	.38° . . . . .	1250, 6000, 8500, 8550, 8600, 8650, 8800 - 26°
Force to operate . . . . .	.2.0N - 20.0N . . . . .	Call factory for specific values

# Splashproof & Dust Resistant options for Switches

## Suitability

A large number of Arcoelectric products have optional or designed-in resistance to moisture or dust. For detailed IP ratings call the factory.

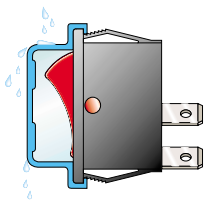
The suitability of these products for specific applications is subject to numerous factors including: mounting method and product orientation, air movement, pressure differential across the product, intensity of impinging liquid flow and application voltage.

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

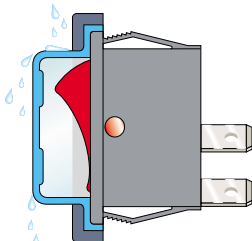
<p>Order code for splash/dust proofing options is shown under the illustration</p>	<p>Page 8</p>  <p><b>8800 Twin</b> can be fitted with</p>  <p><b>L167</b> Push-on cover</p>	<p>Pages 10</p>  <p><b>8500</b> can be fitted with</p>  <p><b>L167</b> Push-on cover</p>	<p>Pages 12</p>  <p><b>8600</b> can be fitted with</p>  <p><b>L167</b> Push-on cover</p>	<p>Page 12</p>  <p><b>8650</b> can be fitted with</p>  <p><b>L180</b> Push-on cover</p>	<p>Page 16</p>  <p><b>6000</b> has integral water-thru feature and</p>  <p><b>G</b> Snap-on cover option</p>
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<p>Order code for splash/dust proofing options is shown under the illustration</p>	<p>Page 18</p>  <p><b>6050</b> has integral water-thru feature and</p>  <p><b>G</b> Snap-on cover option</p>	<p>Page 20</p>  <p><b>1500 and 1300</b> available with W or B Splashproof rockers or</p>  <p><b>G</b> Snap-on cover</p>	<p>Page 22</p>  <p><b>5503</b> can be fitted with</p>  <p><b>G</b> Snap-on cover</p>	<p>Page 26</p>  <p><b>1550 and 1350</b> available with W or B Splashproof rockers or</p>  <p><b>G</b> Snap-on cover</p>	<p>Page 28</p>  <p><b>R13</b> can be fitted with</p>  <p><b>L188</b> Push-on cover</p>
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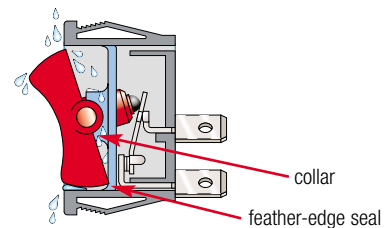
## How they work



**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.

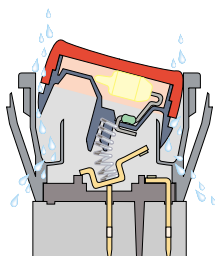
The fitting of external covers is not recommended for momentary (spring return) rocker or lever switches.

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

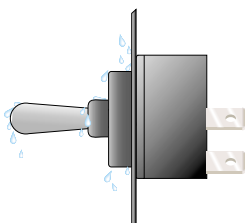
For full product details, dimensions and ratings refer to the catalogue page shown in the photograph (not to scale).

<p>Order code for splash/dust proofing options is shown under the illustration</p>	<p>Page 30</p> 	<p>Page 32</p> 	<p>Page 34</p> 	<p>Page 36</p> 	<p>Page 43</p> 
	<p><b>3900 and 3950</b> have integral O-ring seal and can be fitted with</p>	<p><b>1700 and 1750</b> can be fitted with</p>	<p><b>0600</b> can be fitted with</p>	<p><b>8300</b> can be fitted with</p>	<p><b>0916V</b> has integral seal</p>
	 <p><b>M539 or M1080</b> neck seal or cover</p>	 <p><b>M331, M539, M1080</b> covers or neck seals</p>	 <p><b>M331, M359, M1080</b> covers or neck seals</p>	 <p><b>L167</b> Push-on cover</p>	

	<p>Page 45</p> 	<p>Page 46</p> 	<p>Page 47</p> 	<p>Page 59</p> 	<p>Page 60/61</p> 
	<p><b>1900</b> has integral seal</p>	<p><b>8300V</b> has integral seal</p>	<p><b>0911V</b> has integral seal</p>	<p><b>3005</b> splashproof design</p>	<p><b>3100 and 3141</b> splashproof design</p>



**Water-thru**  
Integral splashproof system



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

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0434	.21,23	22--	.52-55	8553	.10
0441	.27	23--	.52-55	8580	.10,73
0445	.78	24--	.52-55	8600	.12
0480	.26,73	25--	.52-55	8601	.12
0494	.23,27,29	2820	.70	8602	.12
0506	.33,34	2821	.70	8610	.12
0520	.82	2870	.70	8611	.12
0539	.31,33,34	2950	.67	8620	.14
0568	.68	2951	.68	8630	.12,73
0569	.68	3005	.59	8650	.12
0579	.71	3006	.59	8651	.12
0581	.72	3101	.60	8652	.12
0586	.70	3102	.60	8653	.12
0589	.70	3111	.60	8660	.12
0600	.34	3130	.74	8661	.12
0602	.34	3141	.61	8670	.14
0616	.27	3145	.61	8800	.8
0707	.79	3146	.61	8800	Twin units .8
0708	.79	3160	.74	9000	.62
0709	.79	3161	.74	9100	.64
0710	.79	3221	.74	9100	Pull Cord .63
0711	.79	3900	Series .30	V3	.50
0717	.80	3950	Series .30	V4	.48
0721	.81	4102	.35		
0722	.81	5500	.22		
0723	.81	5500	Twin units .23		
0873	.83	5503	.22		
0910	.42	5508	.22		
0911	.44,47	6000	.16		
0911	Vandal .44,47	6000	Twin units .19		
0916	.43	6001	.16		
0917	.43	6002	.16		
0918	.43	6003	.16		
0919	.43	6008	.16		
0920	.43	6009	.16		