

# 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

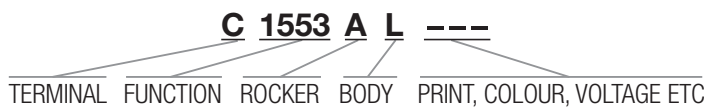


UL CSA 20A 250Vac 1hp, 125Vac 1/2hp  
UL 72Vdc 7A, 36Vdc 14A. UL 85°C, file E45221, CSA file LR10990

*In house test*

20A 28Vdc

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



TERMINAL	FUNCTION	ROCKER
<p><b>C</b></p> <p>6.3 x 0.8 9.1</p>	<p>Approvals &amp; ratings vary with function On Off Switches - ON when pressed over terminal 1</p>	<p><b>A</b> Softline Matt</p> <p>Lit (not momentary)</p>
<p><b>H</b></p> <p>4.8 x 0.8* 9.1</p>	<p><b>Standard 1550</b> ♦</p> <p><b>Hi Inrush 1350</b> ♦</p> <p>ON - OFF</p>	<p><b>B</b> Splashproof (with Arcshield)</p>
<p><b>K</b></p> <p>2.8 x 0.8* 9.1 2.0 1.2</p>	<p><b>1551</b> <small>HP rating N/A</small></p> <p>ON - OFF (momentary ON)</p>	<p><b>V</b> Curved</p> <p>Matt or gloss      Gloss only</p> <p>Lit (not momentary)</p>
<p><b>T</b></p> <p>Ø2.1 7.0</p> <p>Solder</p>	<p><b>1552</b> <small>HP rating N/A</small></p> <p>ON - OFF (momentary OFF)</p>	<p><b>W</b> Splashproof (with Arcshield)</p>
<p><b>U</b></p> <p>Ø2.1 3.2</p> <p>Right angle T Solder (Not DP)</p>	<p><b>1553</b> ♦ <small>Not W, X or B rocker</small></p> <p><b>1353</b> ♦ <small>Not W, X or B rocker</small></p> <p>ON - OFF Lit</p>	<p><b>P</b> Lit window Matt</p> <p>Lit (not momentary)</p>
<p><b>X</b></p> <p>4.0 9.1</p> <p>PCB 0.8Sq*</p>	<p><b>1560</b> ♦ <math>\mu</math></p> <p>ON - ON</p>	<p><b>X</b> Two colour Matt</p> <p>(On Off only - not momentary)</p>
	<p><b>1561</b> <math>\mu</math> <small>HP rating N/A</small></p> <p>ON - ON (momentary 1 side)</p>	<p><b>F</b> Flat lens Gloss (Ø480 only)</p> <p>Top view</p>
	<p><b>1562</b> <math>\mu</math> <small>In house tests only</small></p> <p>2 Circuit ON - ON</p>	<p><b>A</b> Softline lens Matt (Ø480 only) as F but with raised profile</p>
	<p><b>1570</b> ♦ <math>\mu</math> <small>125V &amp; 250V 1/2 HP H terminal rated T100 only</small></p> <p>ON - OFF - ON</p>	
	<p><b>1571</b> <math>\mu</math> <small>HP rating N/A H terminal rated T100 only</small></p> <p>ON - OFF - ON (momentary 1 side)</p>	
	<p><b>1572</b> <math>\mu</math> <small>HP rating N/A H terminal rated T100 only</small></p> <p>ON - OFF - ON (momentary 2 sides)</p>	
	<p><b>1484</b> <math>\mu</math> <small>In-house tested to 10(3)A 250Vac</small></p> <p>3 position selective OFF - A - A+B</p>	
	<p><b>1487</b> <math>\mu</math> <small>In-house tested to 10(3)A 250Vac</small></p> <p>3 position selective A - B - C (link not supplied)</p>	
	<p><b>0480</b> <small>X terminal N/A</small></p> <p>Indicator</p> <p>Technical data on page 66</p>	

\*Contact factory for details on 1350 series



C1350AL ---



C1550XL ---



C1553PL ---



C0480AL ---



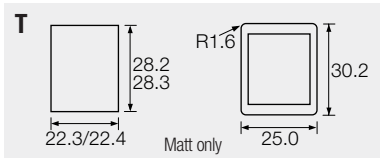
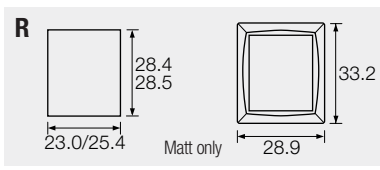
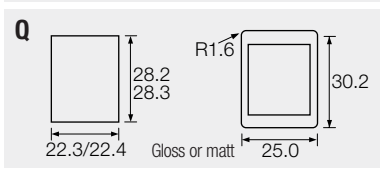
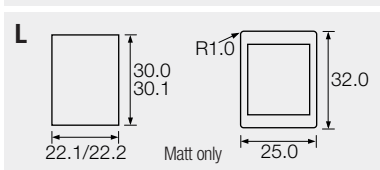
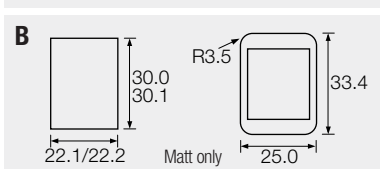
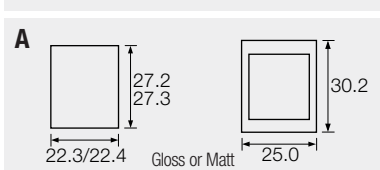
Optional snap-in M441 barrier



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

**BODY**

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



**OPTIONS**

**Finish** Matt is standard

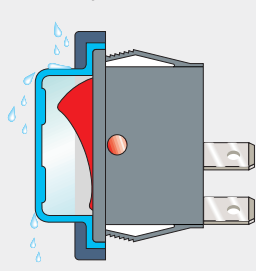
**Colour** Call factory for custom colours. A full range is available for large orders

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

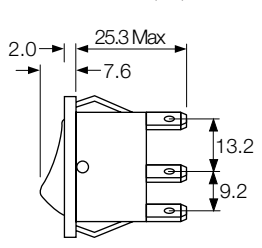


Panel sealing washer W42 is available for the above body sizes but reduces panel thickness by a further 0.8mm. Covers are not suitable for momentary types.

**Arcshield**  
Hides switching arc

For all options call the factory

**DIMENSIONS (mm)**



Terminal spacing - Poles 10.2 between centres

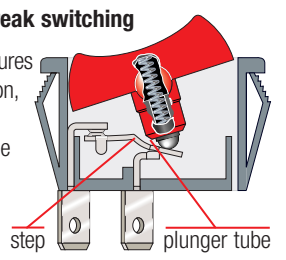
**Panel thickness**

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

**1350 High inrush, positive break switching**

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



**Examples of printing**



EN602A EN730 EN822

# 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 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° 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		

# Technical Information - Indicators

The majority of Arcoelectric 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

## FILAMENT LAMPS

### Colours

Red, Amber, Green, (Clear and Blue - check availability)

## LEDS

### Colours

Red, Yellow and Green.

### Voltage

Basic voltage 2.0/2.2V. Some items are available with integral resistors for 12V use. For details of resistors required for higher voltages, please call the factory.

### Current

Maximum continuous forward current 35mA.

### Life

>100,000hrs

### Polarity

LED flat side is - negative, round side + positive.