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 48-49, 51 and 56-59), indicators (pages 70-84) and connectors (pages 85-87) have product specific information within the section.

MATERIALS Body and actuator (opaque)	MOST PRODUCTSNylon 6.6	are stainless steel
Actuator (transparent)	Copper Alloy	0600 and 3900 actuators are plated brass 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)		
Mechanical life (Operation)		
Contact resistance (switches) new condition	5m Ω (average)	For 1100 & 2000 call sales
Insulation resistance	>20MΩ	
across open contacts between poles between live parts and accessible metal	>3kV	
Comparative Tracking Index (CTI)		
Temperature rise (terminals) at end of rated life		°K (EN 61058-1)

PROPERTIES

Physical

Humidity resistance at 91-95% relative humidity

(to subsequently comply with requirements of the

 $Angular \ movement \ \pm 4^{\circ} \ overall \ (where \ applicable) \ \dots \dots \dots 38^{\circ} \ \dots \dots 1250, 6000, 8500, 8550, 8600, 8650, 8800 - 26^{\circ} \ negative \ negati$

INGRESS PROTECTION

IP40 unless otherwise stated.

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

GENERAL INFORMATION

ALL SWITCHES

Heat and Fire resistance Category D.

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.

 $\mu = \text{micro gap switch contacts} < 3\text{mm}.$

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 sales 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	Productgms
0055, 00565.7/6.8	1091FH12.6	1700H8.4	556714.3	85504.8
030532.9	11002.0	1750H13.2	605013.58	85535.2
03334.5	1250SP5.9	1750025.6	605314.15	8600
03458.9	1250DP7.0	2000 2pos C SP3.8	700010.4	86204.3
0340 sw only7.12	13005.7	2000 2pos C DP 4.5	705012.3	86506.3
04305.5	135011.2	2000 5pos A SP 6.3	705312.9	86708.5
0589	15005.7	2000 5pos A DP7.3	82504.9	88002.9
0711-1S 16.6	15206.6	T2225B5.0	83004.0	910020.0
0712-S	155011.2	29505.3	83505.0	
0717-1S	155311.8	311111.8	8350RP34.0	
0900S/L	157012.7	55007.1	83535.9	
10482.8	1584-1589	55037.8	8500	

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

Available with Red, Amber, Green, Blue or Clear lenses.

Maximum striking voltages

Standard brightness types 65Vac 90Vdc. High brightness types 85Vac 135Vdc. High brightness types are usually fitted.

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 #)

Polycarbonate Lenses

Terminals (most types) Brass (electro-tin plated) Brass (flash silver* or nickel** plated) Terminals (exceptions)

Threaded metal nuts Brass (nickel plated on 0275/7) Other fixings Call sales for details

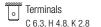
* R9, 0061, 0062, 0430, 0480, 1090, 1091, 6030, 7030, 8630, 8580

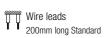
** # 3130, 3160, 3161, 3221 have nickel plated terminals with steel screws and plated polyamide bezel trims

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













Temperature rating

FILAMENT LAMPS

Colours

Available with Red, Amber, Green, Clear or Blue lenses.

LEDs - DC

Colours

Red, Yellow, Green, Blue and White

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 sales.

Current

Maximum continuous forward current 20mA.

Life

>100,000hrs

LEDs - AC

Colours

Red, Yellow, Green, Blue and White.

Voltage

Rated up to 230V ac, suitable for use at 110V and 230V ac.

Current

<3mA

Life

>100,000hrs