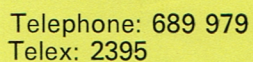


RCOELECTRIC SWITCHES LTD · CENTRAL AVENUE · EAST MOLESEY · SURREY · ENGLAND · KT8 0RF · Telephone: 01-979 3232 · Telex: 24959



INDEX

Cat. Nos. of all switches and lamps etc. are listed in numerical order

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SL42	34	SL81	28	SL180/BR	29	SL275	26	F600/C	8
SL42A	34	SL81/C	28	SL180/B/WL	29	SL275/WL	26	G600	8
SL43	34	L84	42	SL180/K	27	SL276	26	T600	8
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L44	41	SL88/N	30	SL182	28	M279	16	BC603/C	8
SL44	36	SL89	38	SL184	27	SL280	26	BC605/C	8
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SL45	22	SL90	38	SL185	27	SL281	26	BC606/C	8
SL45/C	22	SL90/N	30	SL185/B	29	SL281/WL	26	F610	8
SL46	34	SL90SB	38	SL185/K	27	SL285	26	F610/C	8
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SL48	35	L94	42	SL187	27	N290/K1	12	T620	9
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SL48L	35	SL96	42	SL190	29	N290/L1	12	T630	9
SL48/P/H	35	SL97	42	SL193/N	29	N290/P1	12	SL690	39
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CONDITIONS OF SALE

NEW ACCOUNTS

Cash should be sent with order to avoid delay. To open a monthly credit account we need the names of two of your suppliers to whom we can write for trade references and a bank reference.

SETTLEMENTS

Monthly accounts are due for payment by the end of the month following that in which the goods are despatched. All accounts are strictly nett.

GUARANTEE

All products are tested and inspected before despatch. We will replace or repair free of charge under guarantee any products, returned within a year of the date of sale, in which under proper use, defects have arisen due solely to faulty workmanship or material; provided always that the goods are returned carriage paid and that our permission is first obtained in writing. We will not replace any goods that are more than twelve months old, that have been overloaded, or have otherwise been maltreated. Our guarantee covers free repair or replacement only, and under no circumstances will we refund payment. In every case where goods are returned it is essential to quote our invoice number against which they were supplied. The company will not accept responsibility for the loss of time sustained, cost of repairs executed, or any other consequential damage arising from, or said to arise from, the use of our products. Every effort is made to maintain delivery promises, but we cannot accept any liability in respect of delay or failure in delivery. We reserve the right to withdraw old products and to alter the design of products without prior notice.

U.K. HEALTH AND SAFETY ACT 1974

Abbreviated information on British and Overseas approvals is given in this catalogue, please note that 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 volts AC, T55.

Transparent lenses on signal lamps, neon indicators and illuminated switches are moulded in polycarbonate, a material which is attacked by hydro carbons.

DAMAGE OR LOSS IN TRANSIT

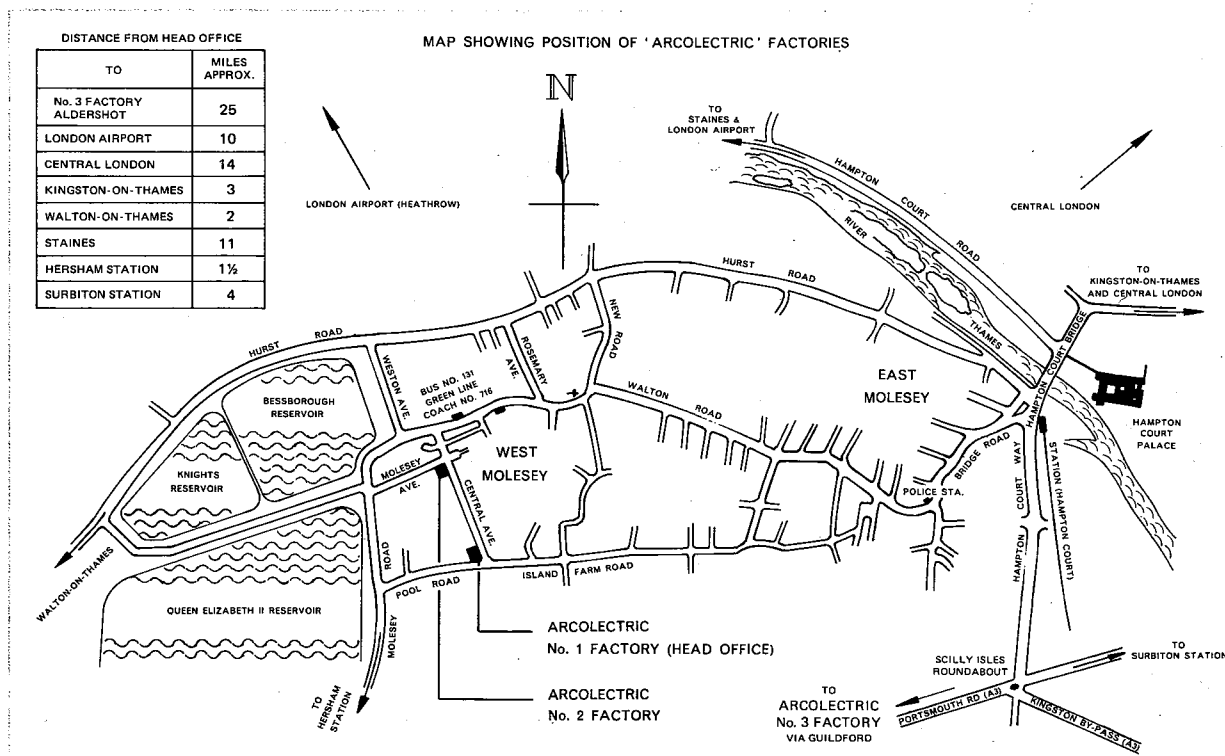
If you wish us to make a claim on the carriers for a parcel damaged in transit you must notify the carriers and ourselves within three days of receipt. If a consignment fails to arrive within ten days of you receiving an advice note and invoice from us you should immediately notify the carriers and ourselves. Claims can only be considered if made within this period. Shortage claims on consignments not damaged in transit should be made within seven days.

CARRIAGE

For all deliveries within the United Kingdom a nominal charge of £1 is made to cover handling, packing and carriage.

PRICES

Notwithstanding any clauses attached to the order, any tenders and any contracts based on them are made on the understanding that we reserve the right to alter prices according to the prices ruling at the date of despatch. Customers will be notified of this alteration and will be at liberty to cancel the contract if desired, but we shall not be liable for any loss thus sustained.





ARCOELECTRIC SWITCHES LTD

CENTRAL AVENUE, EAST MOLESEY, SURREY KT8 0RF, ENGLAND TELEX: 24959

TELEPHONE: 01-979 3232



ARCOLECTRIC SWITCHES LTD

Head Office and Registered Offices:

Central Avenue, East Molesey, Surrey, England, KT8 0RF.

Telephone: 01-979 3232 (Ten lines)

Cables: Arcoelectric, Molesey, England

Telex: 24959

Company No. 357431. Registered in London, England.

V.A.T. Reg. No. 211 3314 30

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U.K.



Germany



Sweden



Denmark



U.S.A.



Canada



Australia



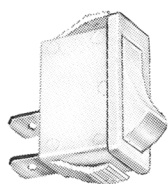
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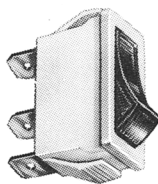
Norway



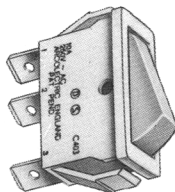
SINGLE POLE SWITCHES



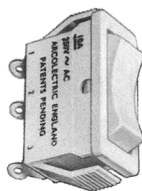
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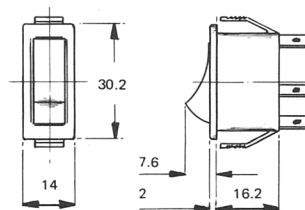
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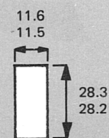
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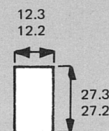
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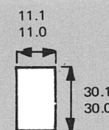
mm



Standard



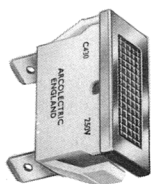
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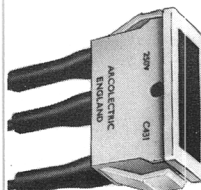
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PANEL CUT-OUTS

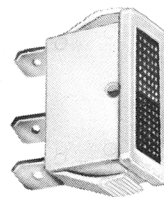
INDICATOR LIGHTS



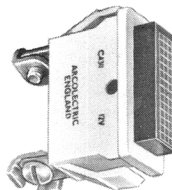
430CZ



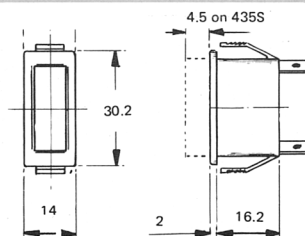
431



433NC

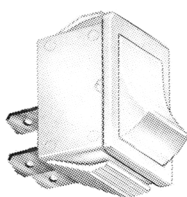


435S

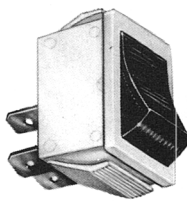


mm

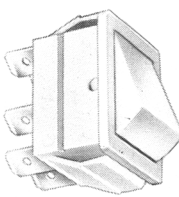
DOUBLE POLE SWITCHES



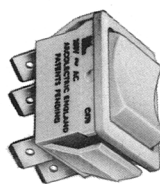
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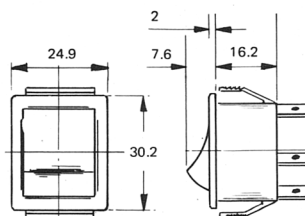
453NC



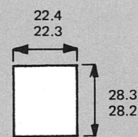
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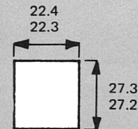
470C



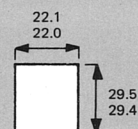
mm



Standard



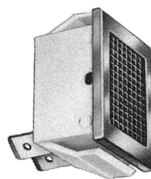
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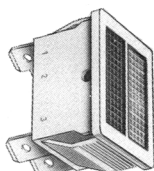
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PANEL CUT-OUTS

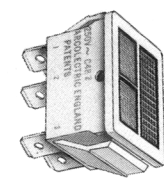
INDICATOR LIGHTS



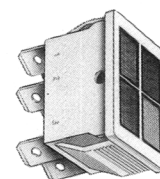
480CZ



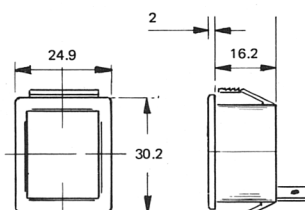
481NC



482C



483NC



mm

MULTI-LIGHT INDICATORS

Diagram 6



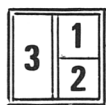
431 and 433

Diagram 7



481

Diagram 8



482

Diagram 9



482

Diagram 10



483

TO ORDER: Use the ordering codes tabulated on pages 4 and 5, or state requirements in full, as illustrated in the example.

EXAMPLE:— 482 C W IR2A3G 3 DIAGRAM 9

(3-light indicator double pole body size, plain fixing clips, standard panel hole, 6.3 Tab terminals, white body, 1 Red Lens, 1 Amber Lens, 1 Green Lens (large), 150/300V sequence to Diagram 9).

Snap-in-fixing in panels, thickness between .75mm and 3.3mm. Fixing clips may be plain or serrated form.

BEZELS: Chrome bezels for all switches and indicator lights (except Cat. No. 435) See ORDERING CODE on pages 4 and 5.

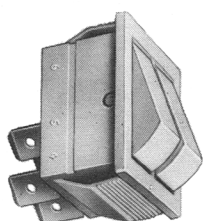
CONNECTING LINK, for common connection of terminals of two single pole adjacent switches or indicator lights. Part No. P437

ROCKERS. Curved or flat but curved only on illuminated double pole.

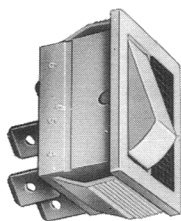
NEON INDICATORS WITH FLASHING SIGNAL. See ORDERING CODE on pages 4 and 5.



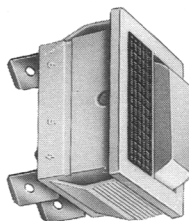
TWIN UNITS (DOUBLE POLE BODY SIZE)



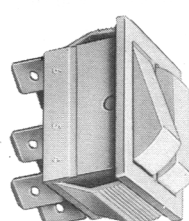
400C/400C



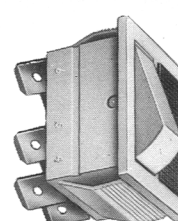
400C/430C



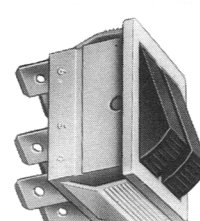
430C/420C



410C/420C



410C/433C



403C/403C

Selection of units which can be supplied

TWIN UNITS. Double pole body size units, fitted with independent single pole switches or indicator lights. These can consist of 2-single pole switches, or 1-single pole and 1-indicator light or 2-indicator lights. Any combination of the switches and lights tabulated on page 4 may be fitted, in any sequence to suit requirements. Flat top rockers only. **TO ORDER.** Use the ordering code found on page 4, and include the applicable diagram number, which can be selected from the following:—

Diagram 1



Switch Switch

Diagram 2

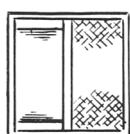
Switch Single
Indicator
Light

Diagram 3

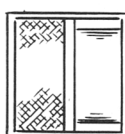
Single
Indicator
Light Switch

Diagram 4

Switch 2-light
Indicator

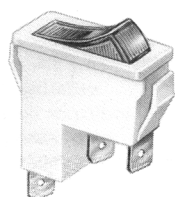
Diagram 5

2-light
Indicator Switch

EXAMPLE:— 410 C W W/433 C.IR2G 3. DIAGRAM 4 (Will be marked C410F C433)

(Single pole change-over switch, plain fixing clips, standard panel hole, 6.3 Tab Terminal, white body and rocker with 2-light indicator having 6.3 Tab Terminals, red upper, green lower lenses, 150/300V).

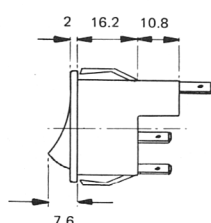
LOW VOLTAGE



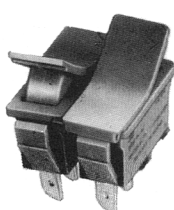
LV 403C

Low Voltage single pole switch with light. Voltage range 6V, 12V or 24V. Standard panel hole only, as page 2. **TO ORDER.** Use the ordering code on page 4.

Dimensions in mm



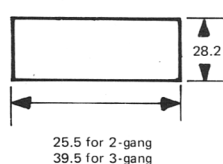
LATCHING SWITCHES



L400C/400C

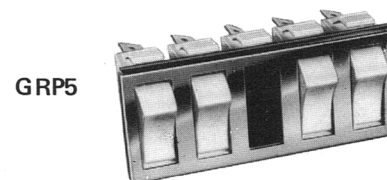
Single pole switches with special rockers for interlatching, and sequence switching.

TO ORDER. Use the ordering code on page 4 and place letter 'L' in front of the completed catalogue numbers.

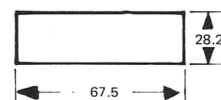


PANEL CUT-OUT

GROUPED ASSEMBLIES



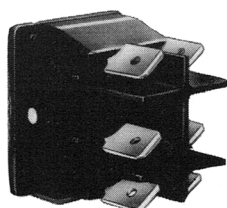
GRP5

PANEL
CUT-OUT

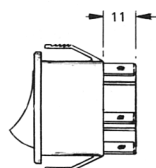
Chrome finish brass escutcheon for grouping five single pole switches or indicator lights into one assembly.

TO ORDER. Use letters 'GRP', followed by details of the units required, using the ordering code on page 4.

DOUBLE POLE BODY SIZE UNITS WITH INSULATING TERMINAL BARRIERS



460AC/M441



mm

Double pole body size units can be supplied fitted with insulating barriers, affording complete isolation of the rear terminals as shown in the illustration.

TO ORDER: Add M.441 to Catalogue Number.



SINGLE POLE BODY SIZE

Terminal Numbers		PANEL CUT-OUTS		Terminations	Body Colours	Rocker and Lens Colours	Voltage
		Type No. Standard cut-out plain fixing clips					
	ON/OFF	400 1400	For switches with serrated fixing clips to fit standard cut-out, place letter 'N' at rear of type No. Example: 400N	See column headed 'Terminations' on page 5	Standard colours B = Black W = White	Standard colours Curved Rockers B = Black W = White RE = Red	0 = No resistor required 1 = Below 100V specify 2 = 100/130V 3 = 200/250V 4 = 380/440V
	ON/OFF with light	403 1403	For switches to fit panel cut-out Ref 'A' (serrated fixing clips only) place letter 'A' at rear of type No. Example: 400A		Special Colours on request To quantity order	Flat Rockers FB = Black FW = White FRE = Red	Filament Lamps 6 = 6V 7 = 12V 8 = 24V
	ON/OFF with light	LV 403				Transparent Lenses and Curved Rockers R = Red CL = Clear G = Green A = Amber BL = Blue	
	2-Pos C/O	410 1410	For switches to fit panel cut-out Ref 'M' (plain fixing clips only) place letter 'M' at rear of type No. Example: 400M			Transparent Flat Rockers FR = Red FC = Clear FG = Green FA = Amber FBL = Blue	
	3-Pos C/O centre off	420 1420				Note:- Red, Clear Amber only with neon, Green with fluorescent	Use this column only when ordering indicator lights or switches with lights
	Single indicator light	430 435					
	2-Light indicator (flex leads only)	431					
	2-Light indicator	433					

403 C W R 3

*EXAMPLE:--

(Single Pole Switch with light, plain fixing clips, Standard panel hole, 6.3 Tab Terminals, White Body, Red Transparent Curved Rocker, 200/250V).

*The use of this ordering code should help to prevent mistakes but note that only the Cat. No. and rating are printed on switches e.g. C.403 10A 250V~. Approvals and Temperature rating can be printed on switches if requested.

To order chrome bezels, place letter 'Z' at rear of completed Cat. No. Example:- 403 CWR3/Z



435 neon indicators are available with flashing signal. Red, Amber and Clear.

To order prefix Cat. No. with 'LP'.



DOUBLE POLE BODY SIZE

Terminal Numbers		PANEL CUT-OUTS		Terminations	Body Colours	Rocker & Lens Colours	Voltage
		Type No. Standard cut-out plain fixing clips			Standard colours B = Black W = White	Standard colours Curved Rockers B = Black W = White RE = Red Flat Rockers FB = Black FW = White FRE = Red Transparent Lenses and Curved Rockers R = Red CL = Clear G = Green A = Amber BL = Blue	0 = No resistor required 1 = Below 100V specify 2 = 100/130V 3 = 200/250V 4 = 380/440V
	ON/OFF	450 1450	For switches with serrated fixing clips to fit standard cut-out, place letter 'N' at rear of type No. Example: 450N	6.3 Tab Terminal 0.8mm thick = C All series			
	Single Pole ON/OFF	450 SP 1450 SP					
	ON/OFF with light	453 1453		4.8 Tab Terminal 0.8mm thick = H 1400 series only	Special Colours on request to quantity order		
	S.P. Switch Isol. Light	456 1456	For switches to fit panel cut-out Ref 'A' (serrated fixing clips only) place letter 'A' at rear of type No. Example: 450A				
	D.P. Switch Isol. Light	457 1457		2.8 Tab Terminal 0.8mm thick = K 1400 series only			
	S.P. Switch with Light	458 1458					
	S.P. Switch Momen. on Isol. Light	459 1459					
	2-pos C/O	460 1460	For switches to fit panel cut-out Ref 'E' (plain fixing clips only) place letter 'E' at rear of type No. Example: 450E	Screw and Clamp Terminal = S 400, 430, 435, 480 only			Filament lamps 6 = 6V 7 = 12V 8 = 24V
	Single Pole 2-pos C/O	460 SP 1460 SP					
	Single Pole 2-pos C/O	462 1462		Solder Tag = T 1400 series only			
	2-pos C/O with Light	465 1465					
	S.P. C/O Switch Isol. Light	466 1466		Solder Tag = U 1400 series only			
	3-pos C/O centre off	470 1470				Note: Red, Clear, Amber only with neon, Green with fluorescent	Use this column only when ordering switches with lights or indicator lights
	Single Pole 3-pos centre off	470 SP 1470 SP				Special colours on request to Quantity order	
	Single Indicator Light	480					
	2-Light Indicator	481					
	3-Light Indicator	482					
	4-Light Indicator	483					
	D.P. Switch Light in one Line	490 1490					

*EXAMPLE:—

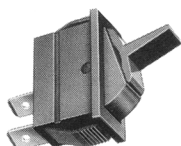
(Double Pole Switch with light, plain fixing clips, Standard panel hole, 6.3 Tab Terminals, White Body, Red Transparent Rocker, 200/250V).

*Switch will be printed: C.453 10A 250V~.

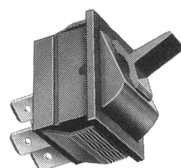
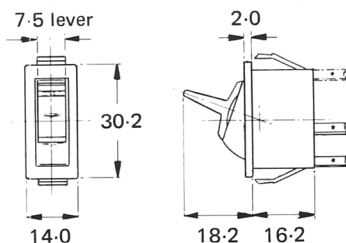


480 neon indicators are available with flashing signal. Red, Amber or Clear.
To order prefix Cat. No. with 'LP'.

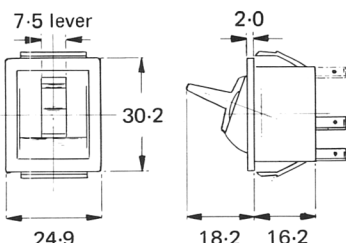
10A. and 16A. 125/250V. ~ AC



3400NC



3450NC



A range of paddle lever operated switches, developed from the series 400 Rocker type. All switches shown on pages 2, 4 and 5 excepting those with lights can be supplied with this lever.

Lever is moulded black nylon, but white can be supplied if requested.

To order convert existing rocker switch Cat. No. as the following example: 400/NC becomes 3400NC.

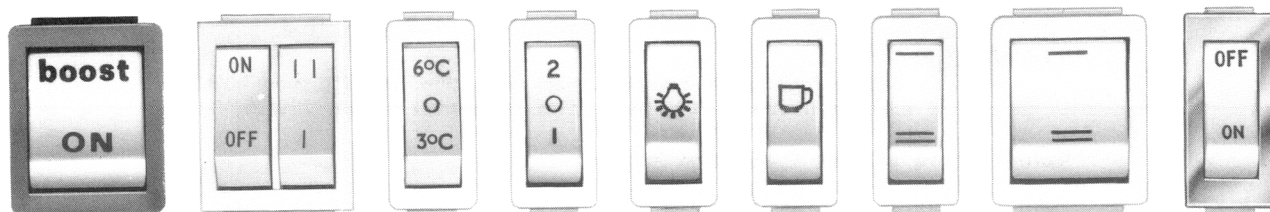
SPECIFICATION (400 and 1400 series)

Contact Rating	10A. 250V. AC Resistive 3A. 250V. AC Inductive 20A. 6, 12 or 24V. DC 16A. 250V. AC Resistive 4A. 250V. AC Inductive 6A. 250V. AC Resistive	400 Series with 'C' or 'S' terminals. 1400 Series with 'C', 'H', 'T' or 'U' terminals. On/Off Switches Cat. Nos. 1400 and 1450 with 'C' or 'T' terminals only. 1400 Series with 'K' terminals.
Contact Resistance	10 mΩ max. in new condition	
Insulation Resistance	> 20 MΩ	
Proof Voltage	1,000V. R.M.S. across contacts in open circuit.	
Dielectric Strength	> 3KV between live poles, and between live poles and exposed metal.	
Force required to operate rocker	1.5 Kg.	
Temperature Range	– 25° C to 85° C at rated current.	
Humidity Resistance	48 hours at 91% – 95% relative humidity.	
Impact Resistance	> 0.5 N _m	
Life	> 10,000 operations on rated loading at a rate of 15 operations per minute.	

GENERAL CHARACTERISTICS

Body	Nylon 66
Rocker (Opaque)	Nylon 66
Rocker (Transparent)	Polycarbonate
Lens (Transparent)	Polycarbonate
Terminals	Brass, Silver plated
Moving Contact	Brass, Silver plated
Contact Points	Fine Silver
Weight (approx)	Single Pole – 8gr Double Pole – 12gr

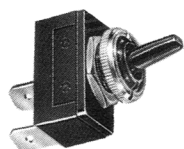
EXAMPLES OF MARKED ROCKERS



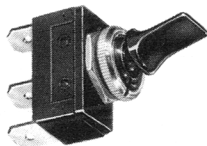
Characters may be ink printed or hot stamped.

10A. and 16A. 250V ~

SINGLE POLE

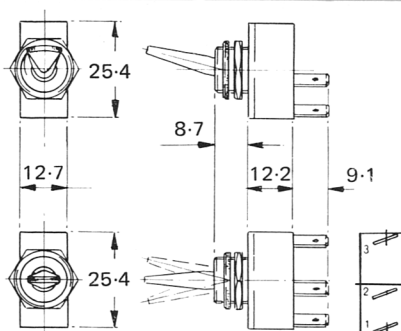


C 800N



C 810M

Switch Type		Cat. No.
	ON/OFF	800
	ON/OFF Momen. on	801
	2-pos C/O	810
	3-pos C/O centre off	820
	Single Pole 2-pos C/O	862



Dimensions in mm

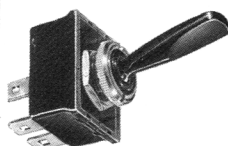
Fixing necks screwed:
11.79 mm dia. x 32 TPI Whit.
11.68 mm dia. x 32 TPI Whit.
and will fit a 12.7mm dia.
panel hole, or cut-out as
page 8.

Max. Panel thickness: 5.6mm.
This may be increased by omit-
ting back nut.

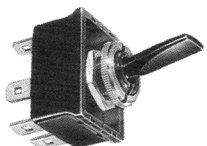
Chrome finish slotted fixing
rings are supplied, but details
of alternative rings may be
found on page 16.

15A. 250V ~

DOUBLE POLE

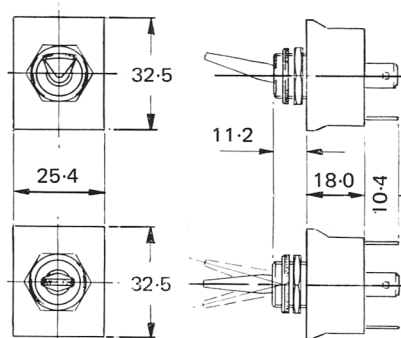


C 850G



C 860H

Switch Type		Cat. No.
	ON/OFF	850
	2-pos C/O	860
	2-pos C/O Reversing	863
	3-pos C/O centre off	870
	3-pos C/O centre off Reversing	873



Dimensions in mm

Standard colour is black. White
supplied on request.

To order with 6:3 Tab terminals
prefix Cat. No. with letter 'C'.

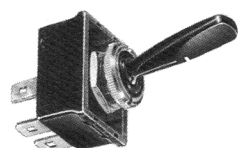
4:8 Tab terminals = H (single
pole only).

2:8 Tab terminals = K (single
pole only).

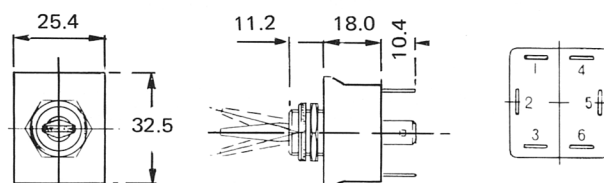
Solder tags = T
(single pole only).

5 BA screws = S
Not available on 810 and 820.

SELECTIVE



C 884G



Position 1	Position 2	Position 3	Cat. No.	Terminal Connections			
				Pos. 1	Pos. 2	Pos. 3	Line term
			884	OFF	A 4	A + B 4:1	2 or 5
			885	OFF	A 4	B 1	2
			886	A 3	A + B 3:4	B + C 4:1	2
			887	A 3	B 6	C 4	2
			888	A 3	B 1	B + C 1:4	2 or 5
			889	A 3	A + B 3:4	B 4	2 or 5

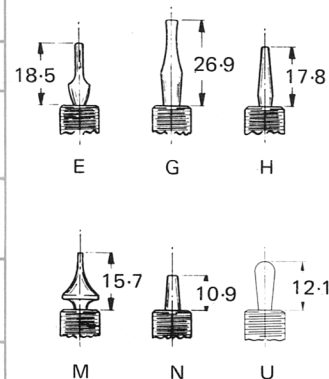
Switching diagrams viewed from rear of switch

Numbers are terminal positions, as shown
in drawing

Further dimensions for term-
inals shown on page 5.

Details of approved switches
are listed on page 18.

ALTERNATIVE LEVERS

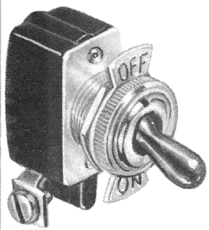


When ordering, please indicate
style of lever required, by
placing appropriate letter at
rear of Cat. No. e.g. 800 N.

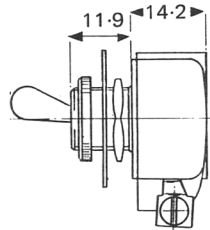
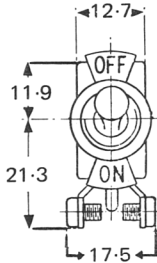


3A. 250V ~ 10A. 6/24V D.C.

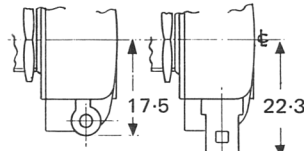
SINGLE POLE ON/OFF



G 600



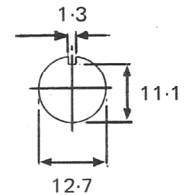
5 BA. Screws
G 600



Solder Tags
T 600
6.3 Tab Terminals
F 600/C

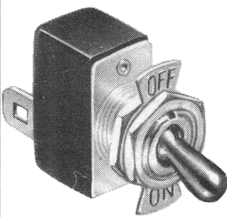
Dimensions in mm

All fixing necks are screwed 11.79 11.68mm dia. x 32 TPI. Whit. and will fit a 12.7mm panel hole or cut-out of following size:

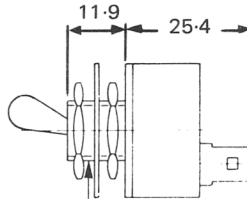
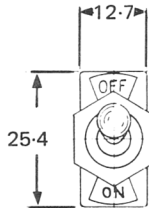


3A. 250V ~ 10A. 6/24V D.C.

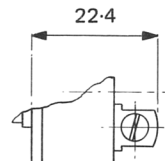
SINGLE POLE ON/OFF



BC 600/C



6.3 Tab Terminal
BC 600/C



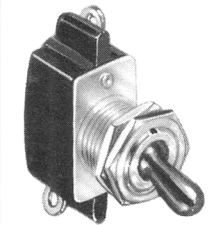
5 BA. Screw
BC 600

Max. Panel thickness: 5.6mm but this may be increased by omitting the back nut on nylon necks only. The back nut must be used on switches with brass necks.

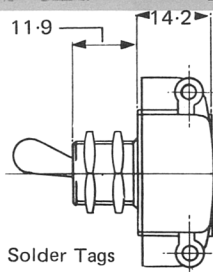
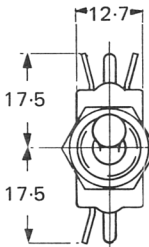
Alternative fixing nuts on page 16.

2A. 250V ~

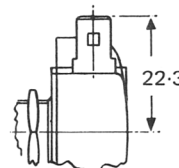
SINGLE POLE CHANGE OVER



T 590



T 590



T 590/C

Metal levers are nickel plated, but chrome finish can be supplied at extra cost.

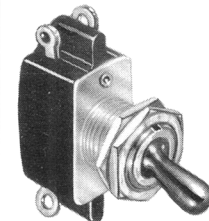
Insulated levers are moulded in black or white nylon.

Alternatively, levers can be moulded in a more pliable material, which will flex under impact. To order switches fitted with these levers place /S, at rear of basic catalogue number.

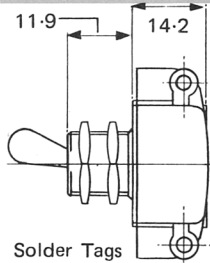
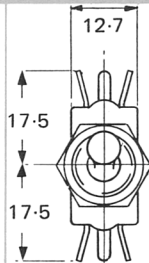
Example: BC 605S/C

2A. 250V ~

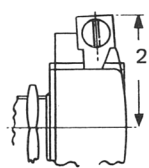
SINGLE POLE 2-CIRCUIT



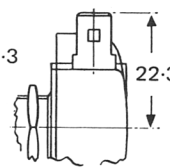
T 610



T 610



F 610

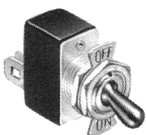


F 610/C

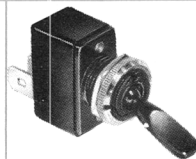
D.C. ratings where not stated, supplied on request.

Details of approved switches on page 18.

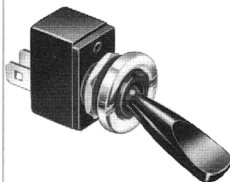
EXAMPLES OF ALTERNATIVE LEVERS



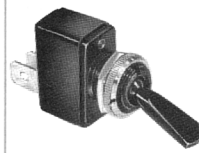
BC 601/C



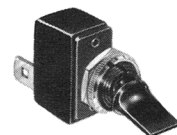
BC 603/C



BC 605/C



BC 606/C



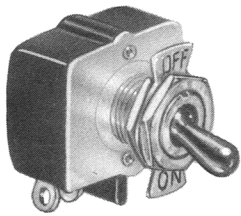
BC 600P/C

Full range of levers shown on page 9.

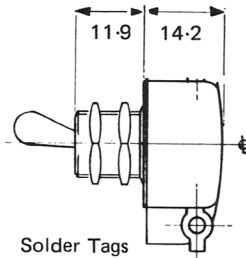
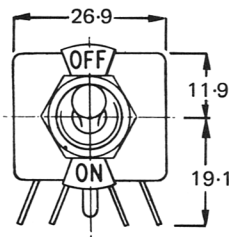


2A. 250V ~

DOUBLE POLE ON/OFF



T 620



Dimensions in mm

Fixing neck details as page 8.

Panel cut-out details as page 8.

Panel thickness as page 8.

Alternative fixing nuts on page 16.

Details of metal and insulated levers shown below.

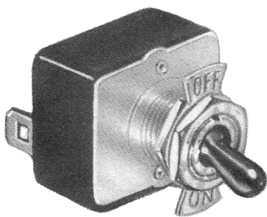
D.C. and low voltage ratings on request.

A version of Cat. No. T 620 fitted with silver plated tags to fit printed circuit boards is Cat. No. T 620/PC.

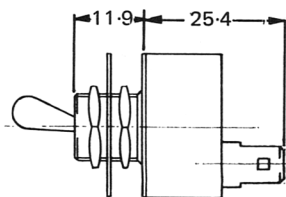
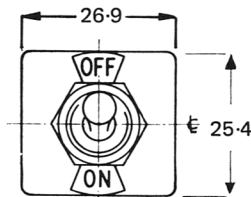
Details of approved switches on page 18. Cat. No. 1620 etc.

2A. 250V ~

DOUBLE POLE ON/OFF



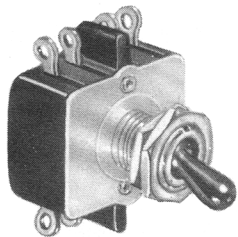
BC 620/C



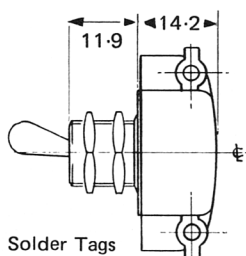
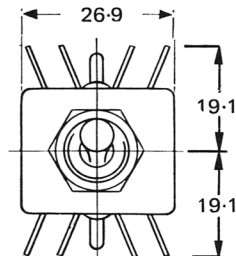
6-3 Tab Terminals

2A. 250V ~

DOUBLE POLE 2-CIRCUIT

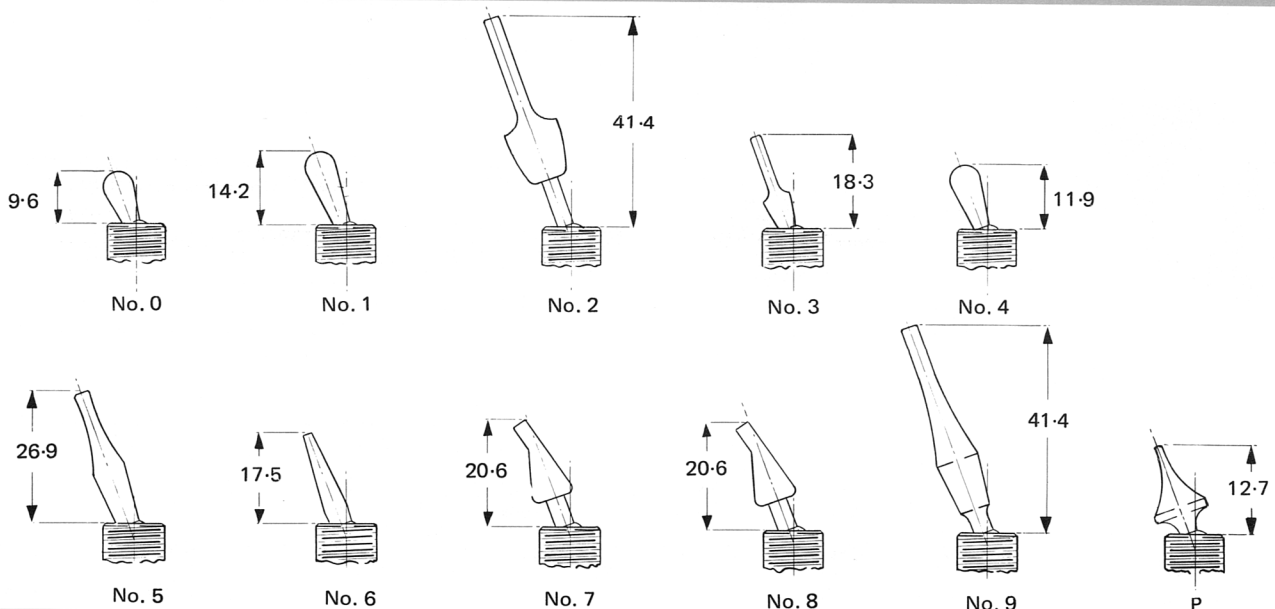


T 630



NOTE: Switches on this page, should have the incoming cables connected to outer terminals, and outgoing cables to the inner terminals.

ALTERNATIVE LEVERS FOR '600' SERIES SWITCHES

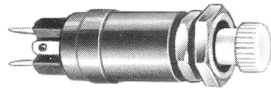


Lever No.	0 and 1	2	3, 4, 5, 6	7	8, 9 and P
Lever Material	Nickel Plated Brass	Nylon lever moulded on chrome brass shaft	Nylon	Nylon lever moulded on chrome brass shaft	Nylon
Fixing neck Material	Nickel Plated Brass	Chrome Plated Brass	Nylon	Chrome Plated Brass	Nylon

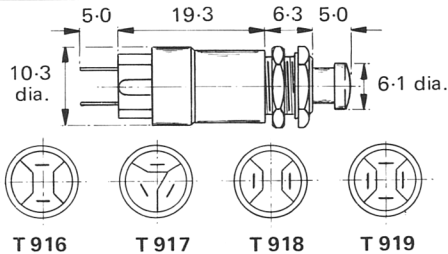


0.5A. 250V ~

916 – 919



T 919



T 916	Push for on	n/o		Max. Plunger Movement 2.5
T 918	Push for off	n/c		
T 919	2-Circuit			

Fixing necks: $\frac{7.04}{6.95}$ dia. x 40 TPI Whit.

Panel hole: 7.1 dia.

Operating pressure: 600 gr. approx.

Solder Tags only.

Press Buttons: Black, Red, White or Green.

Fixing nuts: Ring or domed hexagon chrome finish.

Self-cleaning silver plated contacts.

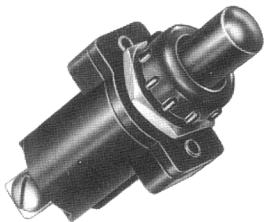
Slow make and break action.

Max. panel thickness:	Both nuts	Less back nut
	2.5	4.0

0.5A. 250V ~

0.25A. 250V DC

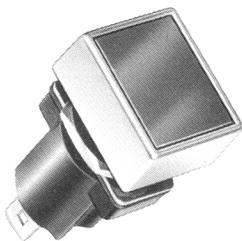
936 and 938



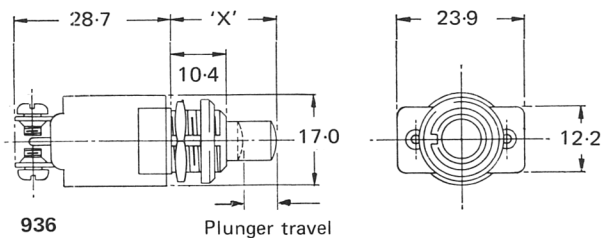
S 936/D1 and S 938/D1



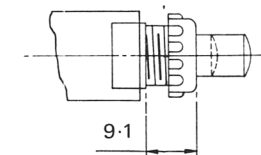
S 936 K and S 938 K



C 936 KR and C 938 KR

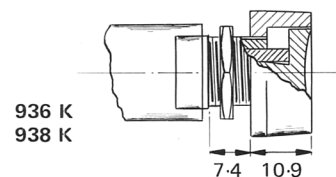
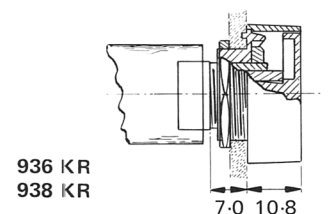
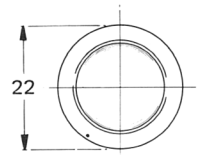
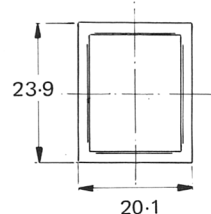
936
938

Plunger travel

936 DI
938 DI'X' Dimension
936 – 19.8mm
938 – 17.5mm

Plunger travel

936 & 936L	– 6.3mm
938 & 938 L	– 4.1mm
936 K & 938 K	– 1.5mm
936 KR & 938 KR	– 3.0mm

936 K
938 K936 KR
938 KR

Dimensions in mm

Fixing necks screwed:
 $\frac{11.79}{11.68}$ mm dia. x 32 TPI Whit.

Panel hole: 12.7mm dia. except /KR series (rect. push).

For details of special panel drilling on /KR series, see drawing of 290/KR on page 12.

MAX. PANEL THICKNESS

936 and 938	– 4.8mm
936 DI and 938 DI	– 4mm
936 K and 938 K	– 4mm
936 KR and 938 KR	– 4mm
936 L and 938 L	– 4.8mm
936L/DI and 938L/DI	– 4mm

Button colours: Black, Red, Green or White. Splashproof covers on page 16.

Metal fixing necks nickel finish.

'K' shrouds, anodized aluminium.

'KR' shrouds, moulded natural colour or finished matt or bright chrome.

Slow make or break action.

Current carrying parts silver plated.

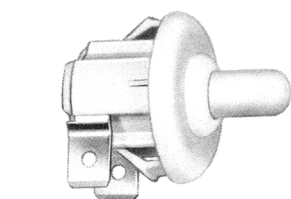
NOTE: Back nut must always be used on switches with metal necks.

Terminals	Standard Press Button		Round Shrouded Push	Rectangular Shrouded Push	As /K, but less Push and Shroud	
	Metal Neck	Nylon Neck	Metal Neck	Metal Neck	Metal Neck	Nylon Neck
6-3 Tab.	C 936	C 936/D1	C 936 K	C 936 KR	C 936 L	C 936L/D1
5 BA Screw	S 936	S 936/D1			S 936 L	S 936L/D1
Solder Tags	T 936	T 936/D1			T 936 L	T 936L/D1
6-3 Tab.	C 938	C 938/D1	C 938 K	C 938 KR	C 938 L	C 938L/D1
5 BA Screw	S 938	S 938/D1	S 938 K	S 938 KR	S 938 L	S 938L/D1
Solder Tags	T 938	T 938/D1	T 938 K	T 938 KR	T 938 L	T 938L/D1

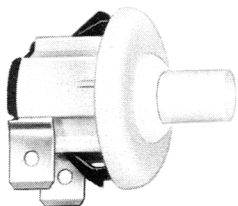
0-4A. 250V ~



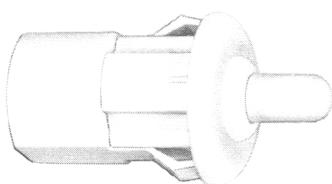
55 and 56



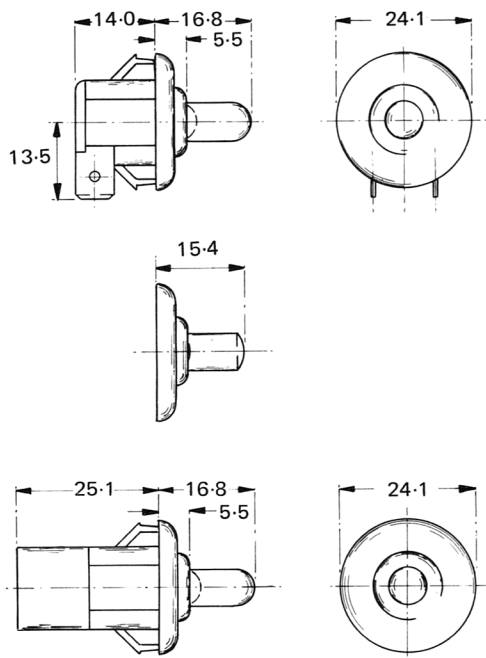
B 55R



B 55F



B 56



Max. plunger travel - 9.6

All insulated moulded body, with integral nylon clips for snap-in panel mounting.

Slow make and break, normally closed single pole switch action.

Nylon plunger with overtravel.

6-3 Tab terminals.

Operating pressure: 280gr. approx.

Panel cut-out: 19.2
19.05 dia. hole.

		Min.	Max.
Panel	B 55R	1.0	1.6
	B 55F	1.0	1.6
Thickness	B 56	1.0	2.6

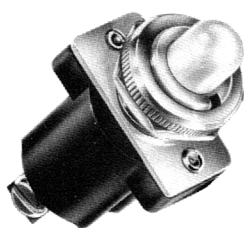
Details of approvals on page 18.

Please state whether refrigerator or oven light application.

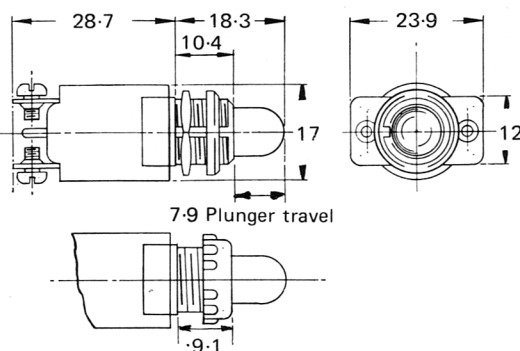
0-2A. 250V ~



930



S 930



Max. panel thickness 4.8 on metal necks
4.1 on nylon necks

Fixing necks 11.79
11.68 mm dia. x 32 TPI Whit.

Panel hole: 12.7mm dia. or cut-out

Slow make and break, normally closed SP switch action.

Metal or moulded nylon fixing necks.

Alternative panel fixing nuts on page 16.

S 930 5 BA. Screw Terminals

C 930 6-3 Tab Terminals

T 930 Solder Tags

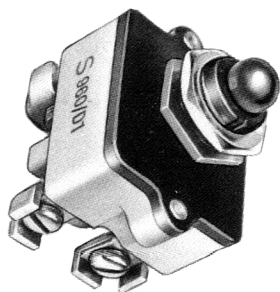
For moulded necks, add /DI to Cat. No. eg. C 930/DI.

Splashproof covers on page 16.

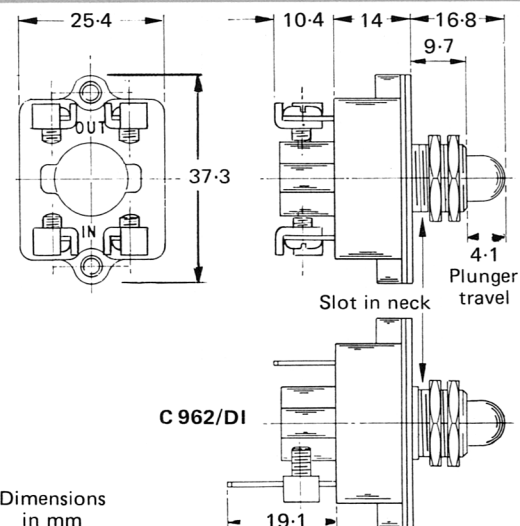
15(3)A. 250V ~



960



S 960/DI



Dimensions
in mm

Fixing necks 11.79
11.68 mm dia. x 32 TPI Whit.

Panel hole: 12.7mm dia.

Max. Panel thickness: 5.8mm

All insulated moulded body and nylon neck. Slow make and break single or double pole normally open switch action. Nylon plunger with overtravel.

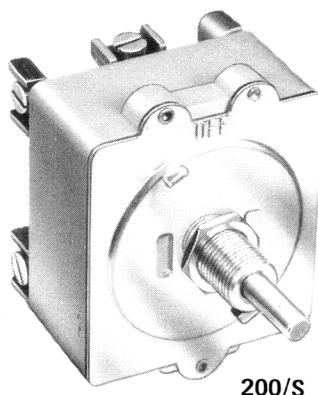
Alternative panel fixing nuts on page 16.

Operating pressure: 1120gr. approx.

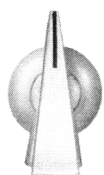
S 960/DI Double pole. Screw terminals.
C 960/DI As above with 6-3 Tab terminals.
S 960F/DI As S 960/DI with flat top plunger.
S 961/DI Single pole version of S 960/DI.
C 962/DI As C 960/DI, with duplex incoming terminals for screw and tab connection.

Approved switches on page 18.

B.S.I. approved Cat. No. 1960 etc.



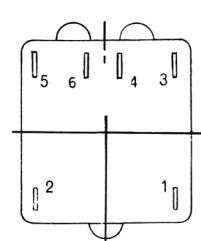
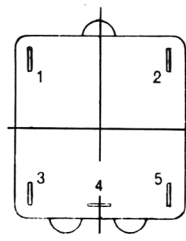
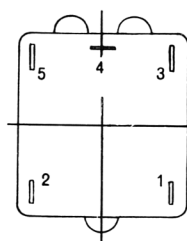
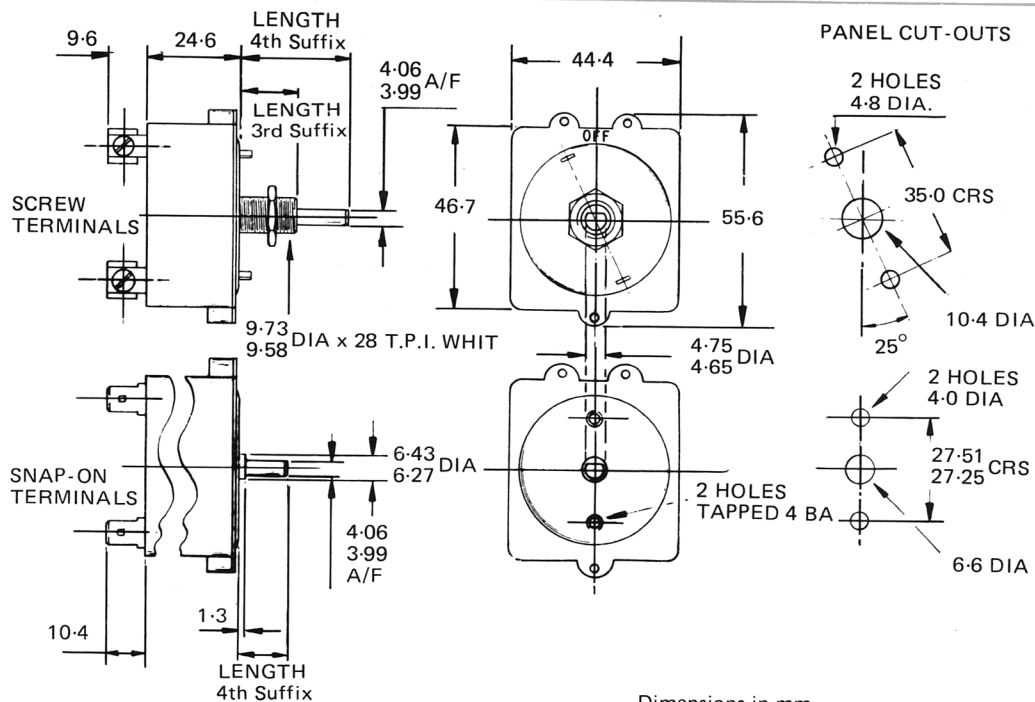
200/S



KNOB K 240



KNOB K 241



TERMINAL POSITIONS VIEWED FROM REAR

Switches with 5-Terminals in 3, 4 and 5 position types
Switches with 6-Terminals also available

See drawing above for terminal positions.

All switches have a spring loaded snap action.

Two mounting arrangements available:—

- (1) Threaded bush and nut fixing which is standard
 - (2) Plain bush with 2-4 BA. tapped fixing holes.
- Drawing above gives details.

Switches have D-Section spindles for push-on knobs.

Illustrated are 2-knobs which can be supplied at extra cost.

K 241 suitable for 200 only.

Chart below gives details of all variations available. When ordering place the appropriate suffixes in correct order at rear of the switch basic number. Details of basic numbers in the chart on opposite page. As an example:— 200/C/R/X/5.

1st	2nd	3rd	4th
-----	-----	-----	-----



3-POSITION (5-Terminals)	SWITCHING SEQUENCE				APPLICATION			
	Cat. No.	0°	120°	240°	Switching	0°	120°	240°
	208	1.2.3	1.2.4	1.2.5	SINGLE POLE	A only	B only	C only

4-POSITION (5-Terminals)	SWITCHING SEQUENCE					APPLICATIONS				
	Cat. No.	0°	90°	180°	270°	Switching	0°	90°	180°	270°
	200	OFF	1.3 and 2.4.5	1.3 and 2.5	1.4 and 2.5	DOUBLE POLE	OFF	A & B parallel	A only	A & B in series
Reversed Switch box	201	1.4 and 2.5	OFF	1.3 and 2.4.5	1.3 and 2.5	SINGLE POLE	OFF	A, B & C parallel	A & C parallel	A only
	205	OFF	1.3 and 2.5	1.3.4 and 2.5	1.4 and 2.5	SINGLE POLE	OFF	A only	OFF	B only
	206	1.3	1.2.4.5	1.2.4	1.4	SINGLE POLE	OFF	A & B parallel	B only	A only
	207	OFF	1.4 and 2.5	1.3 and 2.5	1.3 and 2.4.5	SINGLE POLE	OFF	A & B parallel	OFF	A only
	209	OFF	1.2.3	1.2.4	1.2.5	DOUBLE POLE	A & B in series	OFF	A & B parallel	A only
	211	OFF	1.4 and 2.5	1.3 and 2.5	1.3 and 2.4	SINGLE POLE	A only	OFF	A, B & C parallel	A & C parallel
	212	1.3 and 2.4.5	OFF	1.4 and 2.5	1.3 and 2.5	SINGLE POLE	OFF	A & B parallel	A, B & C parallel	B & C parallel
	213	OFF	1.3 and 2.5	OFF	1.3 and 2.5	DOUBLE POLE	OFF	A only	A & B parallel	B only
	214	OFF	1.3 and 2.4.5	1.3 and 2.4	1.3	SINGLE POLE	A only	B, C & D parallel	B & C parallel	B only
	215	OFF	1.4 2.5	1.3 2.5	2.5	DOUBLE POLE	OFF	A & B in series	A only	A & B parallel
	227	OFF	1.4 and 2.5	1.3 and 2.5	1.3 and 2.4.5	SINGLE POLE	OFF	A only	A & C parallel	A, B & C parallel
Reversed Switch box	212	1.3 and 2.4.5	OFF	1.4 and 2.5	1.3 and 2.5	SINGLE POLE	OFF	B only	OFF	A only
	213	OFF	1.3 and 2.5	OFF	1.3 and 2.5	SINGLE POLE	OFF	A only	B only	A & B parallel
	214	OFF	1.3 and 2.4.5	1.3 and 2.4	1.3	SINGLE POLE	OFF	A only	B only	A & B parallel
	215	OFF	1.4 2.5	1.3 2.5	2.5	SINGLE POLE	OFF	A only	B only	C only
	227	OFF	1.4 and 2.5	1.3 and 2.5	1.3 and 2.4.5	DOUBLE POLE	OFF	A & B in series	A only	B only
	212	1.3 and 2.4.5	OFF	1.4 and 2.5	1.3 and 2.5	DOUBLE POLE	A & B parallel	OFF	A & B in series	A only
	213	OFF	1.3 and 2.5	OFF	1.3 and 2.5	DOUBLE POLE	OFF	A only	OFF	A only
	214	OFF	1.3 and 2.4.5	1.3 and 2.4	1.3	SINGLE POLE	OFF	A, B & C parallel	A & B parallel	A only
	215	OFF	1.4 2.5	1.3 2.5	2.5	SINGLE POLE	OFF	A & B	A & C	A only
	227	OFF	1.4 and 2.5	1.3 and 2.5	1.3 and 2.4.5	Applications as 207				

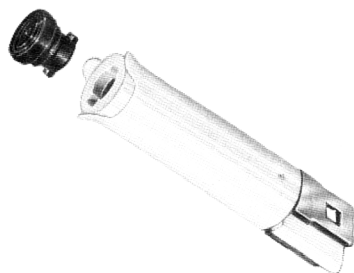
5-POSITION (5-Terminals)	SWITCHING SEQUENCE						APPLICATION					
	Cat. No.	0°	72°	144°	216°	288°	Switching	0°	72°	144°	216°	288°
	210	OFF	1.2.3.4.5	1.2.3.4	1.3.4	1.3	SINGLE POLE	OFF	A,B,C&D parallel	A,B&C parallel	A & B parallel	A only

Numbers shown in Switching Sequence chart indicate terminals connected by the switch action.

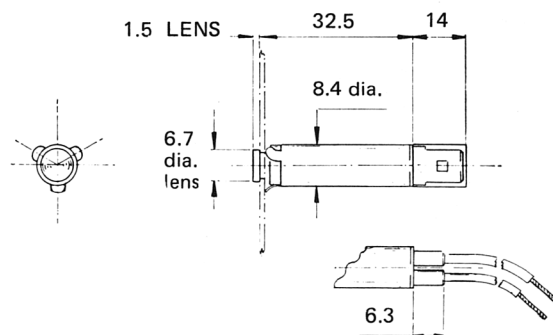
Numbering position shown on drawing on opposite page.

Application wiring diagrams supplied on request.

5.8 mm dia. panel hole



SL 145



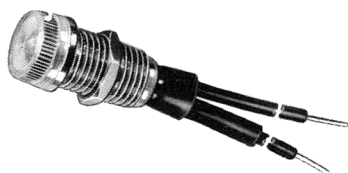
Dimensions in mm

White nylon body.
Polycarbonate coloured lens.
Max. panel thickness 0.9.
For thicker panels up to 3.0 max. a longer lens can be supplied.

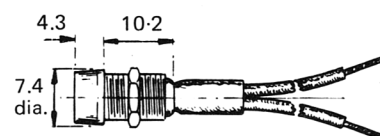
SL 145 has 6.3 tab terminals.
SL 145/WL has 200mm long flexible leads.

Indicators are assembled into panel by inserting lens into front of panel and fixing body to the lens at rear of panel by a push and turn movement.

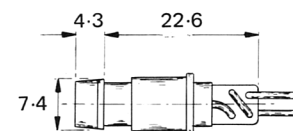
6.3 mm dia. panel hole



SL 41



SL 45



Dimensions in mm

SL 41. Metal body, screwed nut fixing.
SL 41/C. As above with extra front bezel.
Metal body screwed 6.2/6.1 dia. x 40 TPI Whit.
Body and bezel chromium finish.
Max. panel thickness 6.3mm.

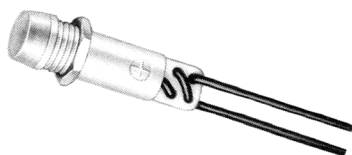
SL 45. Moulded body push-on collar or push-on nut fixing.

SL 45/C. As above with chrome front bezel.
Max. panel thickness 10.0mm.

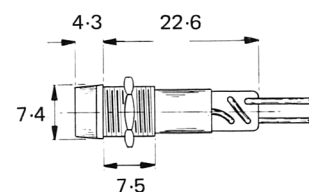
Resistors are assembled in body moulding.

Both fitted with 200mm long PVC flexible leads.
Coloured non-removable lenses.

7.1mm dia. panel hole



SL 245



Nylon body, screwed 7.04/6.95 dia. x 40 TPI Whit.
for screwed nut fixing.

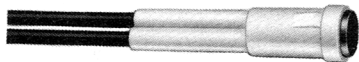
Coloured non-removable lens.

Max. panel thickness 6.3mm.

SL 245 — 200mm long PVC flexible leads.
SL 245/C — As above with chrome front bezel.



8 mm dia panel hole



SL 295/WL



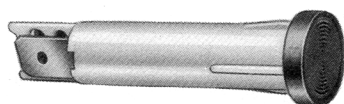
Nylon body with integral spring clips for snap-in panel fixing.

Coloured polycarbonate non-removable lens.

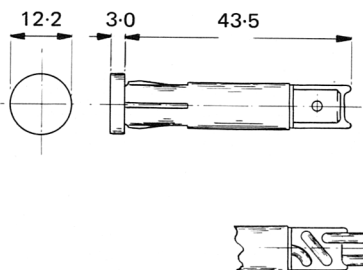
200 mm long flexible PVC covered leads.

Panel thickness 0.8mm min. 1.6 max.

9 mm dia panel hole



SL 273



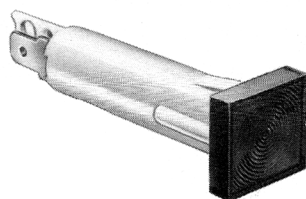
Nylon body with integral spring clips for snap-in panel fixing, and linear rib for location in panel.

Coloured polycarbonate lens.

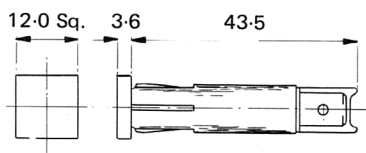
Max. panel thickness – 2.0mm.

SL 273 – 6.3, 4.8 or 2.8 tab terminals.

SL 273/WL – 200 mm long PVC covered flexible leads.



SL 274



As SL 273 above, but with alternative lens shape.

SL 274 – 6.3, 4.8 or 2.8 tab terminals.

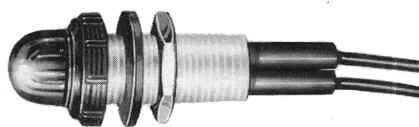
SL 274/WL – 200 mm long PVC covered flexible leads.

Voltage to be
stated on order

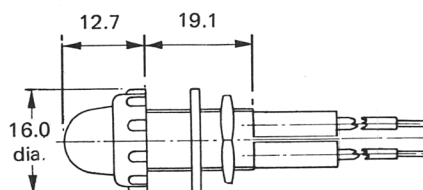
RED, AMBER, CLEAR or GREEN only.
Full details of neon tubes on page 21.

6, 12 or 24V filament lamps available.
Add /LV to Cat. No. and state voltage.

9.5 mm dia. panel hole



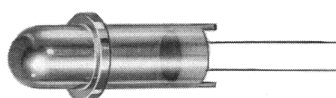
SL 78



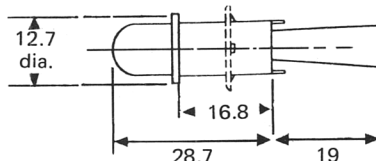
Nylon body $9.47^{+0.05}_{-0.02}$ mm ϕ x 26 TPI
Whit.

Removable coloured lens.

Max. panel thickness – 16.7mm.



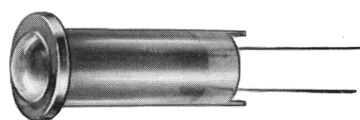
SL 166



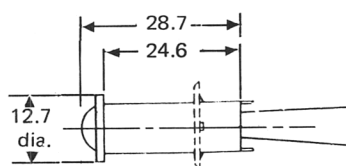
Coloured lens and neon tube only complete with push-on fixing nut.

Series resistor supplied at extra cost if requested.

Max. panel thickness – 14.2mm.

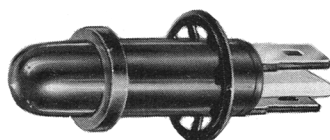


SL 266

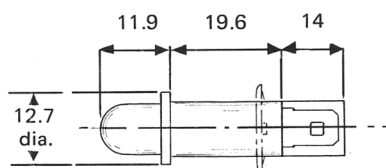


As SL 166 but with shallower front of panel projection.

Max. panel thickness – 22.4mm.



SL 164

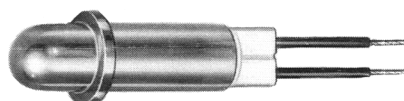


Polycarbonate coloured lens

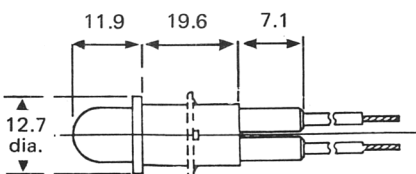
6.3mm tab terminals.

Complete with push-on fixing nut.

Max. panel thickness – 17.5mm.



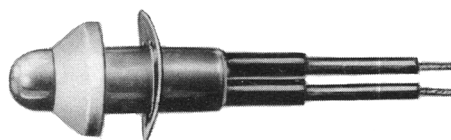
SL 168



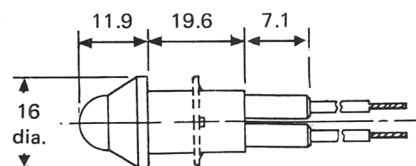
Coloured lens complete with neon tube, resistor and push-on fixing nut.

200mm PVC flexible leads. Other lengths or heatproof type to order. Alternative version with panel locating pip available.

Max. panel thickness – 14.2mm.

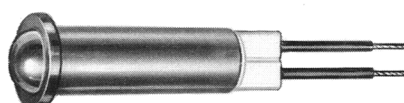


SL 169

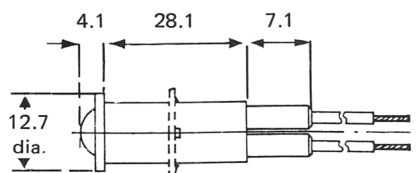


As SL 168 but fitted with moulded front bezel.

Max. panel thickness – 14.2mm.

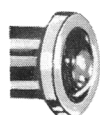


SL 268

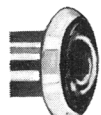


As SL 168 but with reduced front of panel projection.

Max. panel thickness – 22.4mm.



Front Bezel
'B'
14mm o/dia.
Chrome finish



Front Bezel
'C'
15.5mm o/dia.
Chrome finish

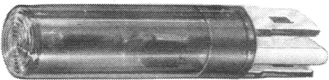
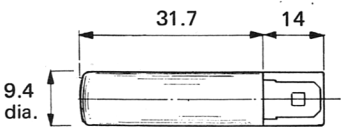
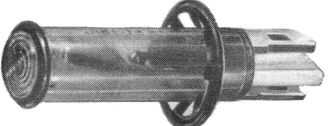
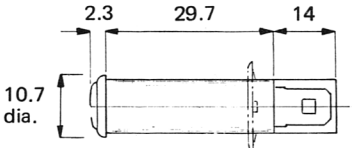
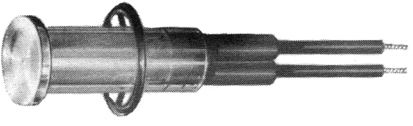
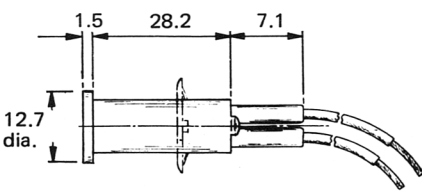
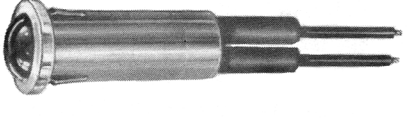
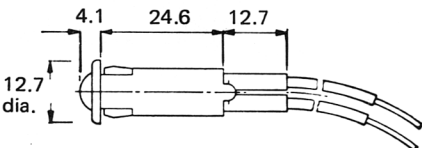
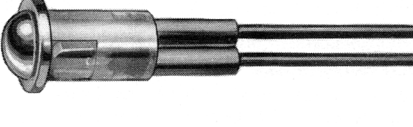

All of these indicators with the exception of SL 78 and SL 169 may be fitted with either of these bezels. To order, place appropriate letter at rear of Cat. No. For example – SL 168/B.

Voltage to be
stated on order

RED, AMBER, CLEAR or GREEN only.
Full details of neon tubes on page 21.

6, 12 or 24V filament lamps available.
Add /LV to Cat. No. and state voltage.

9.5 mm dia. panel hole

 <p>SL 263</p>	 <p>Dimensions in mm</p>	<p>Polycarbonate coloured rimless lens.</p> <p>6.3 tab terminals.</p> <p>Designed for front or rear insertion into panel. Suitable method of mounting in panel is by use of rubber grommet.</p>
 <p>SL 264</p>		<p>Polycarbonate coloured lens.</p> <p>Complete with push-on nut.</p> <p>SL 264 6.3 tab terminals.</p> <p>SL 264/WL 200mm PVC flexible leads. Heatproof to order.</p> <p>Available with chrome bezel 'C' illustrated on page 24.</p> <p>Max. panel thickness – 27mm.</p>
 <p>SL 265</p>		<p>Polycarbonate coloured lens.</p> <p>Complete with push-on nut.</p> <p>SL 265: 200mm PVC flexible leads. Heat proof to order.</p> <p>SL 262: 6.3 tab terminals.</p> <p>Available with chrome bezel 'C' illustrated on page 24.</p> <p>Max. panel thickness – 22.4mm.</p>
 <p>SL 267</p>		<p>Polycarbonate coloured lens with integral spring clips for snap-in fixing into panel.</p> <p>200mm PVC flexible leads. Other lengths or heatproof to order.</p> <p>Available with chrome bezel 'B' illustrated on page 24.</p> <p>Panel thickness - between .9 & 1.1mm.</p>
 <p>SL 269</p>		<p>As SL 267 but with reduced back of panel projection.</p> <p>Panel thickness - between .9 & 1.1mm.</p>

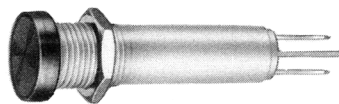
Voltage to be stated on order

RED, AMBER, CLEAR or GREEN only.
Full details of neon tubes on page 21.

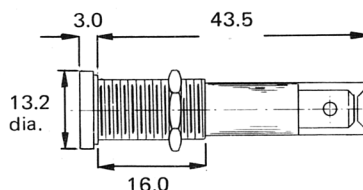
6, 12 or 24V filament lamps available.
Add /LV to Cat. No. and state voltage.



10 mm dia panel hole



SL 275



Max. panel thickness 12mm

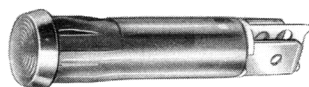
Moulded nylon body, threaded 9.9/9.8 dia. x 32 T.P.I. Whit, for screwed nut fixing.

Polycarbonate coloured lens.

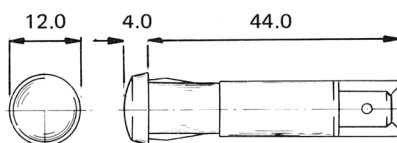
SL 275. 6-3, 4-8 or 2-8 tab terminals

SL 275/WL. 200mm PVC flexible leads.

Loose chrome finish bezel can be supplied. Add /C to Cat. No.



SL 276

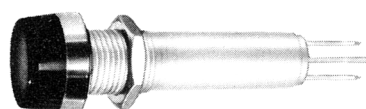
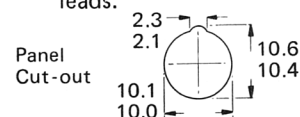


Max. panel thickness 2-8mm

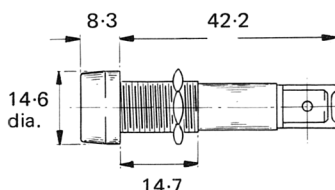
Polycarbonate coloured lens with integral spring clips for snap-in fixing into panel.

SL 276. 6-3, 4-8 or 2-8 tab terminals.

SL 276/WL. 200mm PVC flexible leads.



SL 277



Max. panel thickness 10-7mm

Moulded nylon body, threaded 9.9/9.8 dia. x 32 T.P.I. Whit. for screwed nut fixing.

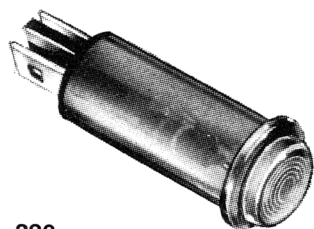
Polycarbonate coloured lens.

Polished chrome bezel.

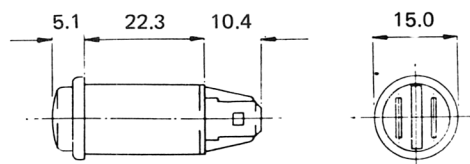
SL 277 6-3, 4-8 or 2-8 tab terminals.

SL 277/WL 200mm PVC flexible leads.

12 mm dia. panel hole



SL 280

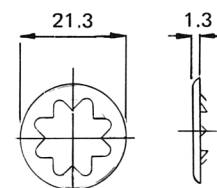


Max. panel thickness 19mm

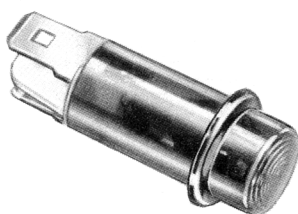
Polycarbonate coloured lens.

6.3 tab terminals.

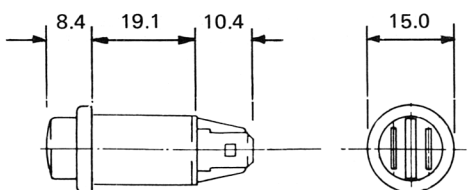
Versions with flexible leads (as drawing on page 27) available at extra cost. To order add /WL to Cat. No. e.g. SL 280/WL.



Complete with push-on nut No. N20

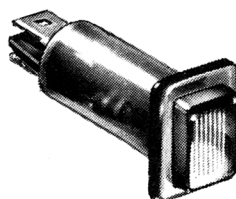
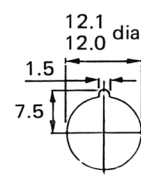


SL 281

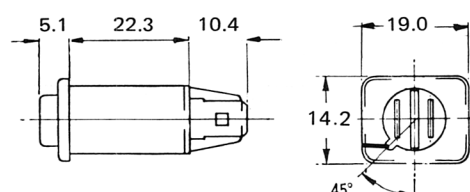


Max. panel thickness 16mm

SL 285 has a linear locating rib on the barrel, location of which is shown on drawing. A suitable panel hole is shown herewith.



SL 285



Max. panel thickness 19mm

To order versions with chrome finish bezels illustrated on page 27, add /K to Cat. No.

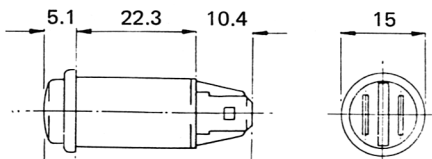
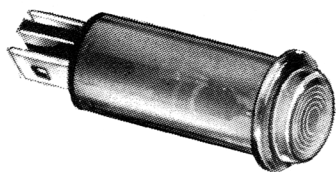
Voltage to be stated on order

RED, AMBER, CLEAR or GREEN only.
Full details of neon tubes on page 21.

6, 12 or 24V filament lamps available.
Add /LV to Cat. No. and state voltage.

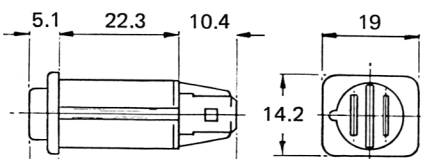
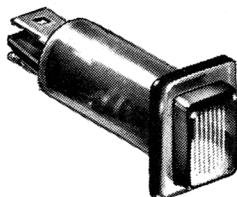
12.7 mm dia. $\begin{smallmatrix} +0.1 \\ -0 \end{smallmatrix}$ panel hole

SL 180



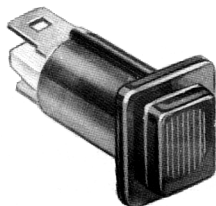
Max. panel thickness 19mm

SL 185



Max. panel thickness 19mm

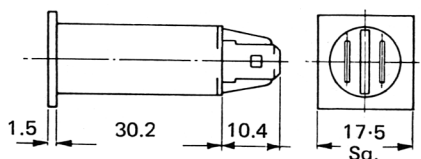
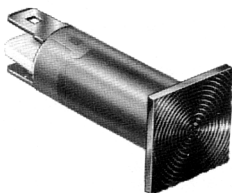
SL 184



EXACTLY AS SL 185, BUT WITH 4mm LESS BACK OF PANEL PROJECTION.

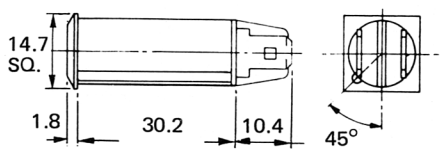
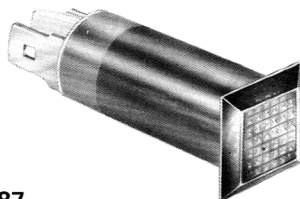
Max. panel thickness 15mm

SL 186



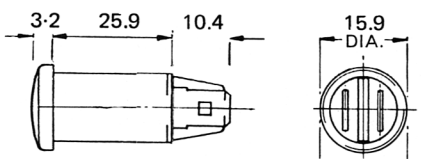
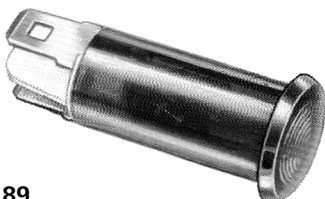
Max. panel thickness 25mm

SL 187



Max. panel thickness 25mm

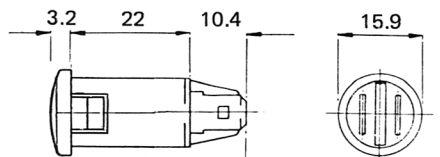
SL 189



Max. panel thickness 21mm

NEW

SL 589



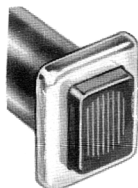
Panel thickness between .9 and 1.14mm

SL 180K

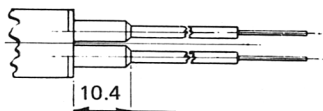


'K' type front rims

SL 185K



'/WL' Leads



14/0076" PVC covered leads 200mm long. Other lengths and heatproof type to order.

Polycarbonate coloured lens.
6.3 tab terminals.

Complete with push-on fixing nut N17.

Versions with flexible leads (as drawing below) available at extra cost. To order add /WL to Cat. No. eg: SL 180/WL.

To order versions with chrome finish front rim, (as shown below) add 'K' to Cat. No. eg: SL 180K.

Indicators Nos. SL 184 and SL 185 have a locating rib on barrel, position of which is shown on adjacent drawing. Details of suitable panel mounting hole is shown at foot of this page.

Polycarbonate coloured lenses.
6.3 tab terminals.

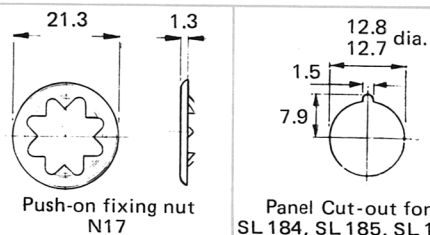
Complete with push-on fixing nut N17.

Versions with flexible leads (as drawing below) available at extra cost. To order add /WL to Cat. No. eg: SL 186/WL.

Indicator SL 187 has a locating rib on barrel, position of which is shown on adjacent drawing. Details of suitable panel mounting hole is shown at foot of this page.

Polycarbonate coloured lens with integral moulded spring clips for snap-in fitting into panel.

Versions with flexible leads (as drawing below) available at extra cost. To order add /WL to Cat. No. eg: SL 589/WL.



Push-on fixing nut N17

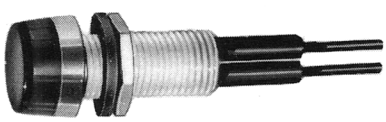
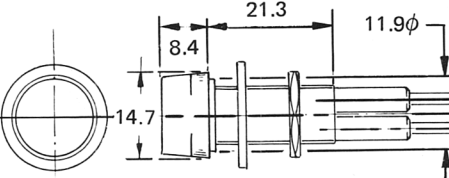
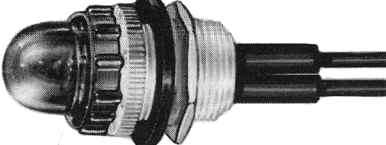
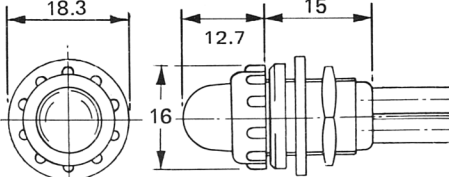
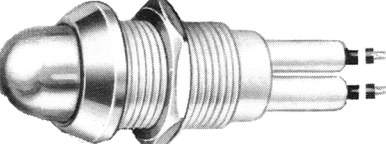
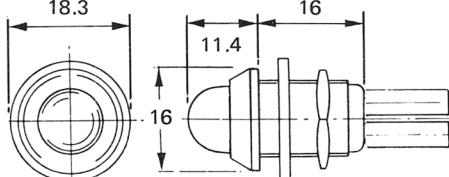
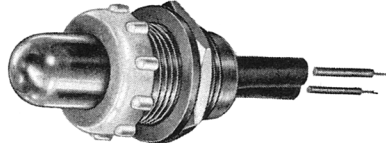
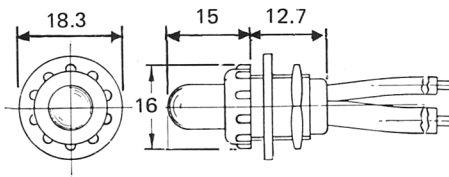
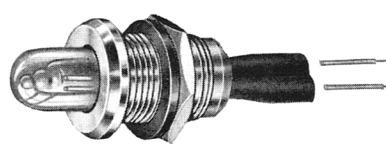
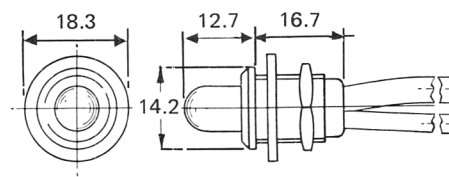
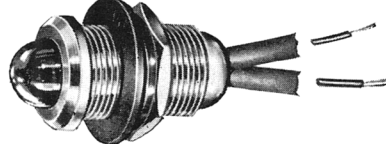
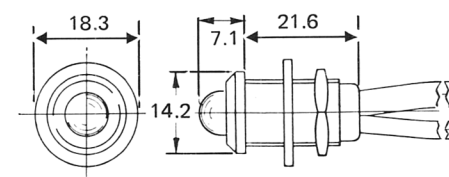
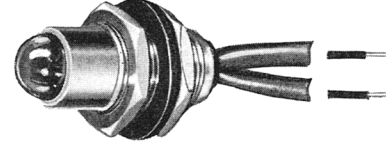
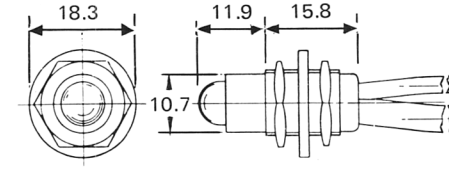
Panel Cut-out for SL 184, SL 185, SL 187

Voltage to be stated on order

RED, AMBER, CLEAR or GREEN only.
Full details of neon tubes on page 21.

6, 12 or 24V filament lamps available.
Add /LV to Cat. No. and state voltage.

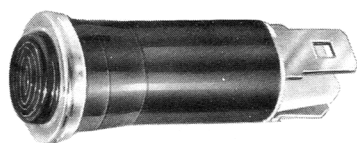
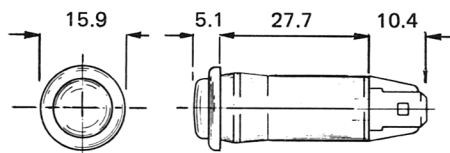
12.7 mm dia. panel hole

 <p>SL 77</p>	 <p>Max. panel thickness 17.5</p>	<p>Nylon barrel 9.47mm dia. x 26 TPI Whit. 9.32</p> <p>Removable coloured lens.</p> <p>Chrome finish front bezel.</p> <p>200mm PVC covered flexible leads. Other lengths or heatproof to order.</p>
 <p>SL 80</p>	 <p>Max. panel thickness 6.3</p>	<p>Nylon barrel 11.79mm dia. x 32 TPI Whit. 11.68</p> <p>Removable coloured lens.</p> <p>200mm PVC covered flexible leads. Other lengths or heatproof to order.</p>
 <p>SL 81</p>	 <p>Max. panel thickness 9.5</p>	<p>Nylon barrel 11.79mm dia. x 32 TPI Whit. 11.68</p> <p>Non-removable coloured lens.</p> <p>200mm PVC covered flexible leads. Other lengths or heatproof to order.</p> <p>SL 81 Nickel finish front bezel. SL 81/C. Chrome finish bezel.</p>
 <p>SL 160</p>	 <p>Max. panel thickness 7.1</p>	<p>Metal barrel 11.79mm dia. x 32 TPI Whit. 11.68</p> <p>Non-removable coloured lens.</p> <p>Removable nylon front ring nut. White or Black.</p> <p>200mm PVC covered flexible leads. Other lengths or heatproof to order.</p>
 <p>SL 162</p>	 <p>Max. panel thickness 8.7</p>	<p>Metal barrel 11.79mm dia. x 32 TPI Whit. 11.68</p> <p>Non-removable coloured lens.</p> <p>Front flange nickel finish. Chrome finish to order.</p> <p>200mm PVC covered flexible leads. Other lengths or heatproof to order.</p>
 <p>SL 163</p>	 <p>Max. panel thickness 13.5</p>	<p>Metal barrel 11.79mm dia. x 32 TPI Whit. 11.68</p> <p>Non-removable coloured lens.</p> <p>Front flange chrome finish.</p> <p>200mm PVC covered flexible leads. Other lengths or heatproof to order.</p>
 <p>SL 182</p>	 <p>Max. panel thickness 7.9</p>	<p>Metal barrel 11.79mm dia. x 32 TPI Whit. 11.68</p> <p>Non-removable coloured lens.</p> <p>This version has no front flange, but has a plain non-threaded front portion.</p> <p>200mm PVC covered flexible leads. Other lengths or heatproof to order.</p>

Voltage to be
stated on order

RED, AMBER, CLEAR or GREEN only.
Full details of neon tubes on page 21.

6, 12 or 24V filament lamps available.
Add /LV to Cat. No. and state voltage.

12.7 mm dia. panel hole

SL 67/N


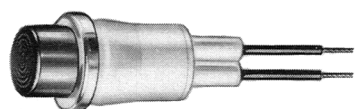
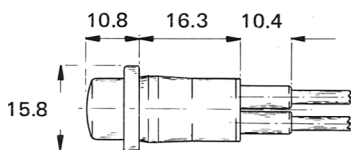
Max. panel thickness 1.1 for snap-in fit

Flexible moulded body for snap-in fixing.

Bright chrome or matt-black finish front bezels.

SL 67/N 6.3 tab terminals.

SL 67/N/WL 200mm PVC covered leads.

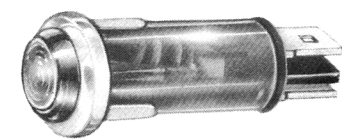
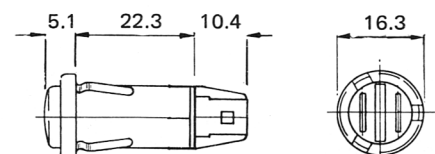

SL 193/N/WL


Max. panel thickness 1.1 for snap-in fit

This version is similar in all respects to SL 67/N above, but has a greater lens area and reduced back of panel projection.

SL 193/N. 6.3 tab terminals.

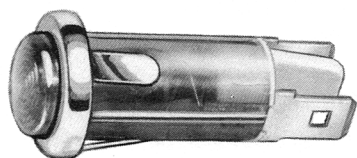
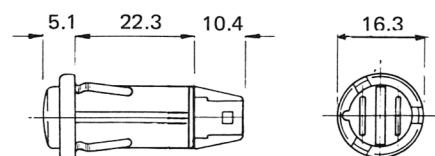
SL 193/N/WL. 200mm PVC covered leads.

13.5 mm dia. panel hole

SL 180B


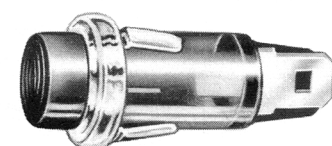
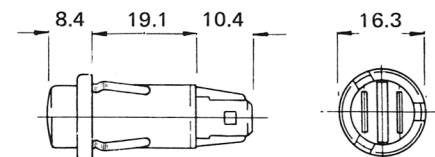
Polycarbonate coloured lenses.

6.3 tab terminals.

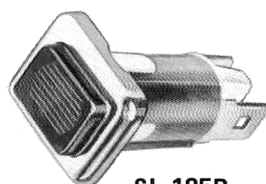
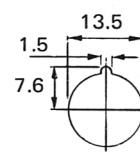
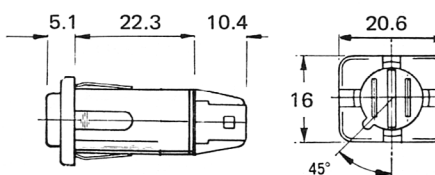
To order versions with flexible leads, details, as drawing on page 27 add /WL to Cat. No.: eg. SL 180B/WL.


SL 180BR


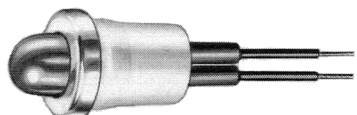
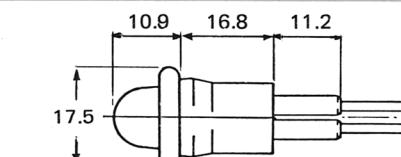
All models have a chrome finish front rim, and spring clips for snap-in fixing into panel. Thickness of panel is between .9 and 1.14mm.


SL 181B


SL 180BR and SL 185B both have a linear locating rib on barrel, location of which is shown on adjacent drawings. Details of a suitable panel mounting hole is shown herewith:


SL 185B


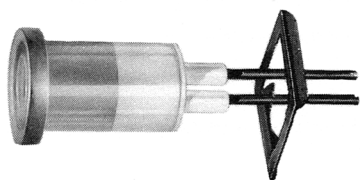
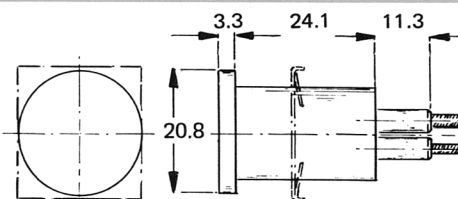
A push-on nut, Part No. N20 can be supplied if requested at extra cost. Overall sizes are shown on page 26.


SL 190/L7


Max. panel thickness 2.0 for snap-in fit

Flexible moulded body for snap-in fixing. Chrome finish front bezel. Coloured lens. 200mm PVC covered leads.

Alternative version with flat top lens available. No. SL 190/L106.

16.0 mm dia. panel hole

SL 236


Polycarbonate coloured lens.

200mm flexible PVC covered leads. Other lengths or heatproof to order.

Push-on nut fixing.

High brightness signal.

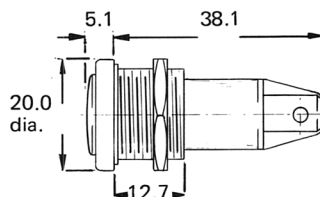
Max. panel thickness — 22.3mm.

Voltage to be stated on order

 RED, AMBER, CLEAR or GREEN only.
Full details of neon tubes on page 21.

 6, 12 or 24V filament lamps available.
Add /LV to Cat. No. and state voltage.

17.5 mm dia. panel hole

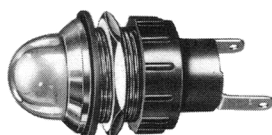
SL 69/N


Dimensions in mm

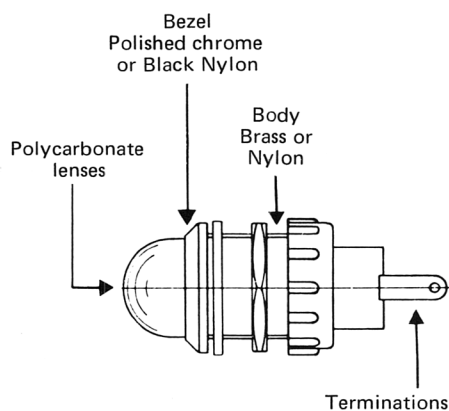
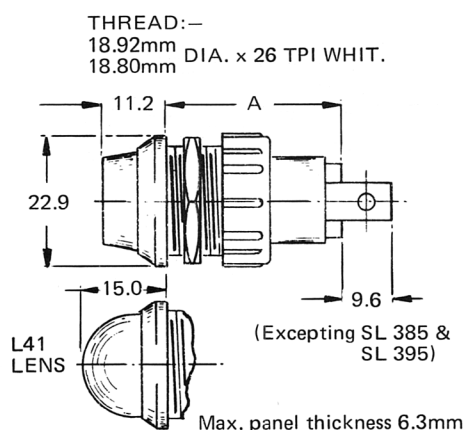
Moulded threaded body for nut fixing.
Srd. 15.75/15.62mm dia. x 26 TPI Whit.
Bright chrome or matt-black finish bezel.

SL 69/N 6-3 tab terminals.
SL 69/N/WL 200mm PVC covered leads.
For LV version see page 37.

19 mm dia. panel hole

SL 88N/L41

SL 90N/L41

SL 391/C/L90

SL 395/C/L90


For 6.3mm Tab type add /C to Cat. No.
For 6 BA Screw Terms. add /S to Cat. No.
For insulated flexible leads add /WL to Cat. No.

MES (E10) NEON TUBE

Cat.No.	Bezel	Body	'A' dimension
SL 88/N	Nylon	Nylon	30.2mm
SL 90/N	Chrome	Brass	30.2mm
SL 381	Nylon	Nylon	30.2mm
SL 391	Chrome	Nylon	30.2mm

Supplied complete with NT 147 M.E.S. (E10) neon tube with built-in resistor.

To order NT 147G fluorescent tube add /G to Cat. No.

Alternative terminations which can be supplied are:- /C and /S. See drawing.

For LV versions see page 38

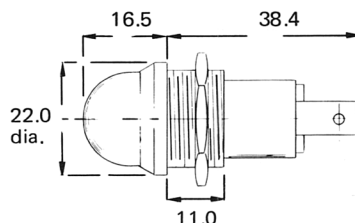
BUILT-IN NEON TUBE

Cat.No.	Bezel	Bezel	'A' dimension
SL 385	Nylon	Nylon	26.9mm
SL 395	Chrome	Nylon	26.9mm

Supplied complete with NT 14 neon tube and separate resistor, built-in to the assy.

To order NT 49G fluorescent tube add /G to Cat. No.

Alternative terminations which can be supplied are:- /C, /S and /WL. (See drawing).


SL 138N


SL 138N. Nylon bezel, nylon body.
SL 139N. Chrome bezel, nylon body.
Supplied complete with NT 151 MCC (BA9s) neon tube with built-in resistor.

To order NT 151G fluorescent tube add /G to Cat. No.

Terminations:- /C or /S. See drawing.

For LV version see page 38.

L90

L41


Either of these two lenses can be supplied

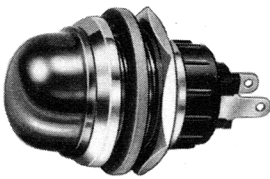
See page 31 for details of insulating terminal cover which can be supplied as an extra.

Voltage to be stated on order

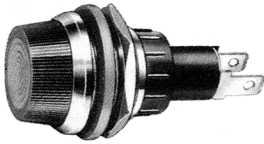
RED, AMBER, CLEAR or GREEN

Full details of neon tubes on page 21

25.4 mm dia. panel hole

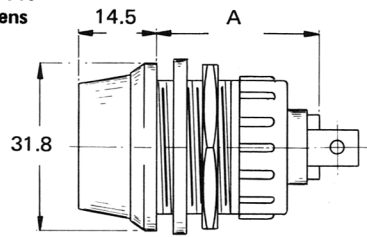


SL 691/L73

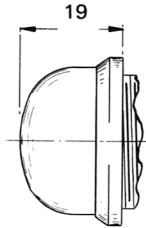


SL 693/C/L117

**L 117
Lens**



**L 73
Lens**



Cat. No.	A
SL 690 SL 691.	30.2
SL 692 SL 693	41.8

Dimensions in mm

These indicators are similar in all respects to the 19mm series shown on page 30.

Chrome finish metal body only.

SL 691. MES neon tube.
SL 693. MCC neon tube.

Terminations available as on page 30.

Max. panel thickness 8.7mm.

For LV versions see page 39.



L117



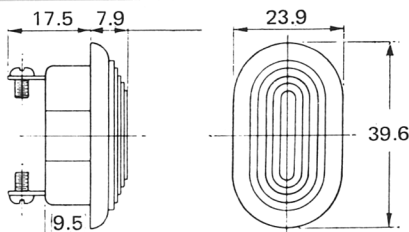
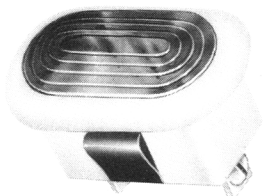
L73

Either of the two lenses may be supplied

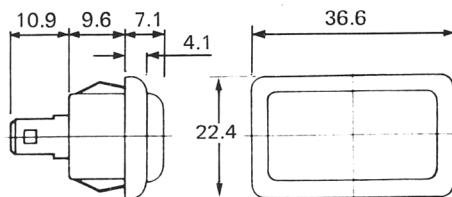
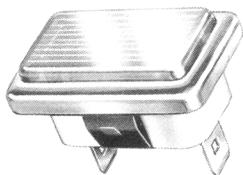


58.4 long x 17.8 dia

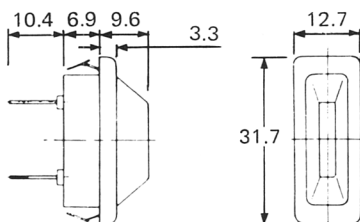
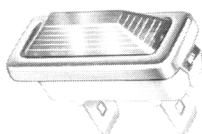
Moulded PVC
Insulating Terminal
Cover Part No. M445
Supplied as an extra

Rectangular panel hole
SL 50


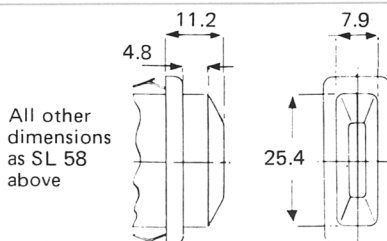
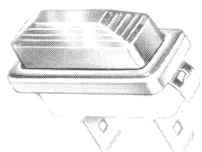
White or black body and surround.
Polycarbonate coloured lens.
Metal spring clips for snap-in panel fixing.
5 BA screw terminals.
Panel cut-out: 30.9mm \pm .13 x 16.7mm \pm .13
Panel thickness between .8mm and 1.6mm.

SL 52


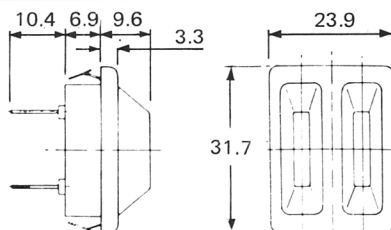
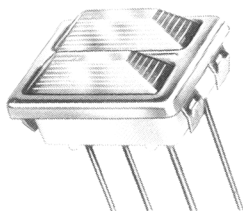
White moulded body with polished chrome surround.
Polycarbonate coloured lens.
6.3mm tab terminals.
Metal spring clips for snap-in panel fixing.
Panel cut-out: 28.7mm \pm .13 x 16.7mm \pm .13
Panel thickness between .8mm and 1.6mm.

SL 58


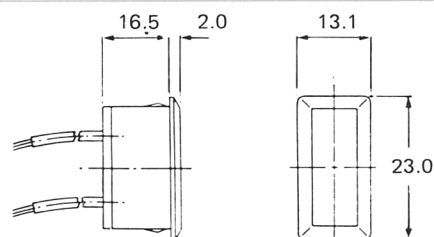
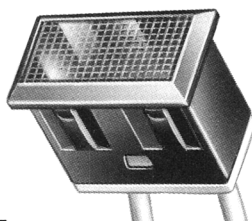
White moulded body with polished chrome surround, and polycarbonate coloured lens.
Metal spring clips for snap-in fixing.
Panel cut-out: 29.4mm \pm .13 x 8.3mm \pm .13.
SL 57 has 200mm PVC covered leads.
SL 58 has 6.3 tab terminals.
Panel thickness between .8mm and 1.5mm.

SL 58S


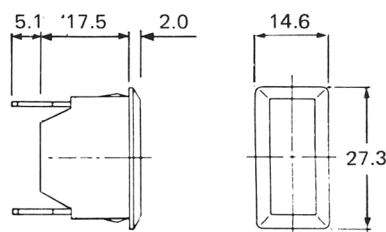
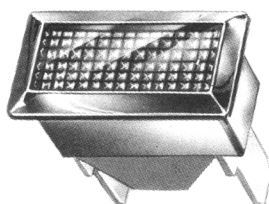
Exactly as SL 57 and SL 58, but having a deeper lens, enabling indicator to be rear of panel mounted, and only lens to be visible from the front. Surround is not chrome finished.
Panel cut-out and thickness to suit dimensions shown on drawing.
SL 57S has 200mm PVC covered leads.
SL 58S has 6.3 tab terminals.

SL 257


Dual lens version of SL 57 and SL 58.
Panel cut-out: 29.4mm \pm .13 x 20.8mm \pm .13
SL 257 has 200mm PVC covered leads.
SL 258 has 6.3 tab terminals.
Panel thickness between .8mm and 1.5mm.

SL 175


Polycarbonate coloured lens with integral moulded clips for snap-in fixing.
200mm long flexible PVC covered leads. Other lengths and heatproof to order.
Panel cut-out: 21.0mm min. x 11.0mm min.
Panel thickness between .9mm and 1.14mm.

SL 176


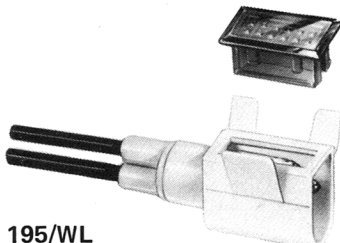
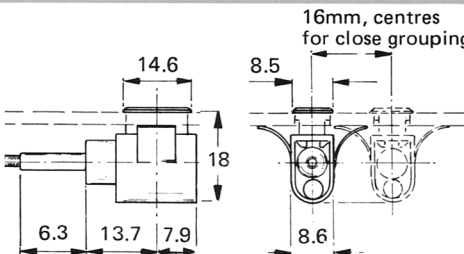
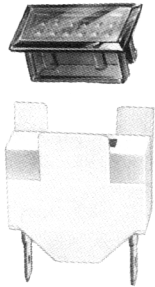
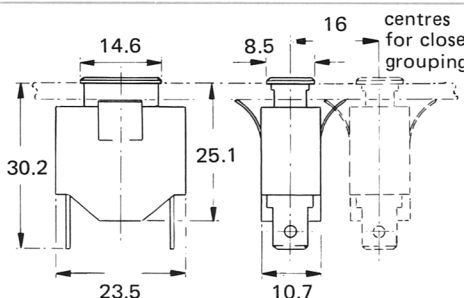
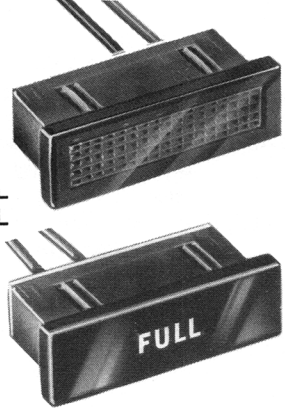
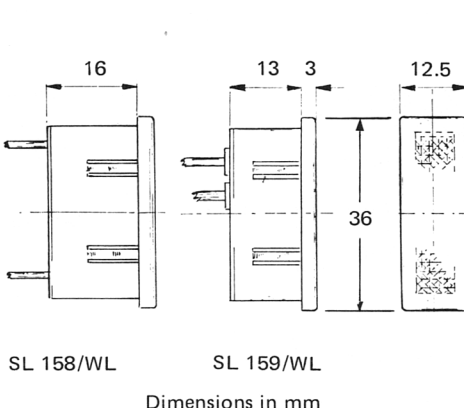
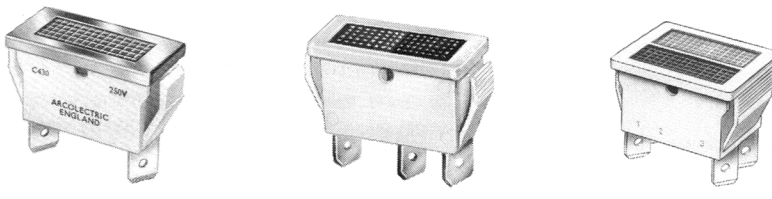
Polycarbonate coloured lens with integral moulded clips for snap-in fixing.
Panel cut-out: 23.8mm min. x 11.1mm min.
SL 176 has 6.3 tab terminals.
SL 176/WL has 200mm PVC covered leads. Other lengths and heatproof to order.
Panel thickness between .9mm and 1.14mm.

Voltage to be
stated on order

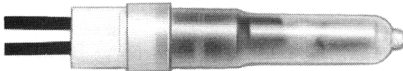
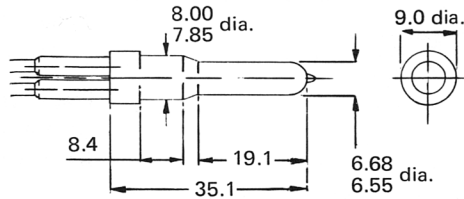
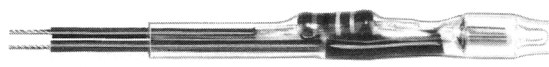
RED, AMBER, CLEAR or GREEN only
Full details of neon tubes on page 21

6,12 or 24V filament lamps available.
Add /LV to Cat. No. and state voltage.

Rectangular panel hole

 <p>SL 195/WL</p>	 <p>16mm, centres for close grouping</p>	<p>Polycarbonate coloured lens and nylon body. Body is adapted to snap-on to lens, the resilient wings on body ensuring a tight assembly. Wings slotted for close panel grouping.</p> <p>200mm long PVC covered flexible leads. Other lengths and heatproof to order.</p> <p>Panel cut-out: 13mm x 6.5mm.</p> <p>Panel thickness between .8mm and 3mm.</p>
 <p>SL 196</p>	 <p>centres for close grouping</p>	<p>Polycarbonate coloured lens and nylon body.</p> <p>Method of assembly into panel as 195/WL.</p> <p>SL 196 has 6.3 tab terminals.</p> <p>SL 196/WL has 200mm PVC covered flexible leads. Other lengths and heatproof to order.</p> <p>Panel cut-out and panel thickness as SL 195/WL above.</p>
 <p>SL 158/WL SL 159/WL M 159/WL</p>	 <p>SL 158/WL SL 159/WL</p> <p>Dimensions in mm</p>	<p>Polycarbonate coloured lens.</p> <p>Snap-in panel fixing.</p> <p>200mm long PVC covered flexible leads. Other lengths and heatproof to order.</p> <p>SL 158/WL standard high brightness. Panel cut-out: 32mm x 9.9/10.1mm.</p> <p>SL 159/WL special high brightness. Panel cut-out: 32mm x 9.5/10.0mm. Post Office approved. PO Nos. 51A and 51C.</p> <p>M 159/WL as SL 159/WL but is fitted with "secret until lit" legends. Red and Amber only.</p> <p>Min. panel thickness .8mm.</p>
 <p>430CZ 433NC 481NC</p>		<p>Full details of this range may be found on page 2, headed 'Rocker Switches'.</p>

Miscellaneous

		<p>Transparent nylon body.</p> <p>200mm long PVC covered flexible leads.</p> <p>Other lengths or heatproof to order.</p>
		<p>Neon tube, resistor and flexible lead assembly, protected by "shrunk on" transparent sleeving.</p> <p>For use with own coloured lens moulding.</p>

SL 232

SL 233

Voltage to be stated on order

RED, AMBER, CLEAR or GREEN only
Full details of neon tubes on page 21

6, 12 or 24V filament lamps available.
Add /LV to Cat. No. and state voltage.

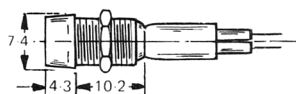


LIGHT EMITTING DIODE LAMPS

6-3mm dia. panel hole. T1 L.E.D.



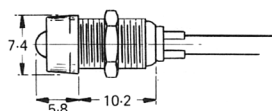
SL 42



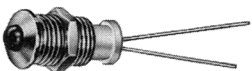
Max. panel thickness - 6.3mm



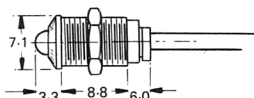
SL 42A



Max. panel thickness - 6.3mm



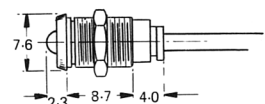
SL 43



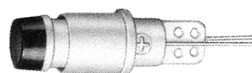
Max. panel thickness - 6.3mm



SL 43V



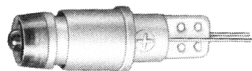
Max. panel thickness - 6.3mm



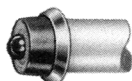
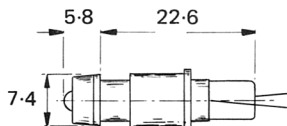
SL 46



Max. panel thickness - 10.0mm



SL 46A



SL 46A/C

Max. panel thickness - 10.0mm

Alternative bodies, either chrome finish brass or nylon. Metal bodies threaded 6-2/6-1mm dia. x 40 TPI Whit, nylon bodies are plain for push-on nut fixing. Polycarbonate lenses and diodes in RED, GREEN or YELLOW.

Plain wire terminations, or at extra cost, 200mm PVC covered flexible leads. Add /WL to Cat. No. for flexible leads.

Cat. No. SL 42 Metal body and coloured lens.

Cat. No. SL 42A As SL 42, but with diode projecting through the lens.

Cat. No. SL 43 As SL 42, less lens, but with diode projecting through chrome finish bezel.

Cat. No. SL 43V As SL 43, but with extended chrome finish shrouding bezel.

Cat. No. SL 46 Nylon body and coloured lens.

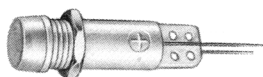
Cat. No. SL 46A All insulated body, with diode projecting through lens.

Cat. No. SL 46A/C As SL 46A, but fitted with loose chrome bezel.

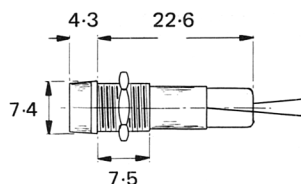
Flexible leads are colour coded: WHITE indicating positive and BLACK for negative, to prevent polarity reversal.

On units with plain wire terminations, rear nylon plug is clearly marked with polarity.

7-1mm dia. panel hole. T1 L.E.D.



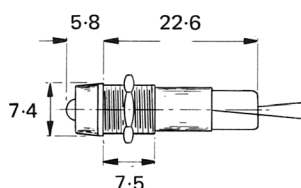
SL 246



Max. panel thickness - 6.3mm



SL 246A



Max. panel thickness - 6.3mm



SL 246A/C

Nylon body, screwed 7-04/6-95 dia. x 40 TPI Whit. for screwed nut fixing.

Coloured polycarbonate non-removable lens, in RED, GREEN or YELLOW.

Plain wire terminations. 200mm long PVC covered flexible leads at extra cost. For flexible leads add /WL to Cat. No.

Rear plug clearly marked with polarity.

Loose chrome finish bezel available to order, add /C to Cat. No.

Cat. No. SL 246 Coloured lens.

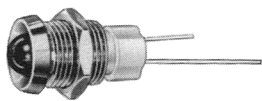
Cat. No. SL 246A Coloured lens, but with diode projecting through lens.

Cat. No. SL 246A/C As above, but fitted with loose chrome bezel.

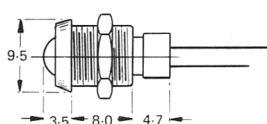


LIGHT EMITTING DIODE LAMPS

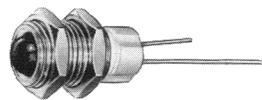
8-0mm dia. panel hole. T1¾ L.E.D.



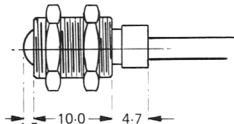
SL 48L
SL 48H



Max. panel thickness - 5.5mm



SL 48PL
SL 48PH



Max. panel thickness - 3.8mm

Chrome finish brass bodies, threaded 7-9/7.8mm dia. x 40 TPI Whit.
Low intensity LED - RED only.
High intensity LED - RED, GREEN or YELLOW.

Cat. No. SL 48L Low intensity LED.
Cat. No. SL 48H High intensity LED.
Cat. No. SL 48PL Low intensity LED, rimless body.
Cat. No. SL 48PH High intensity LED, otherwise exactly as SL 48PL.
Cat. No. SL 48 As SL 48L, but less LED lamp, for manufacturers who wish to fit their own T 1¾ size LED.

Plain wire terminations, or, at extra cost, 200 mm PVC covered flexible leads.

Technical Data for L.E.D. lamps below.

T1 L.E.D. lamps used on 6-3 and 7-1mm dia. series

	Forward Voltage	Max. Voltage	Continuous Forward Current	Power Dissipation	Luminous Intensity		Viewing Angle
					Min.	Typical	
RED	1.7V	2.0V	50 mA	100 mW	0.3 mcd	1.0 mcd	90°
YELLOW	2.1V	3.0V	35 mA	105 mW	0.8 mcd	4.0 mcd	90°
GREEN	2.2V	3.0V	35 mA	105 mW	0.3 mcd	1.0 mcd	90°

Material { Ga AsP RED
Ga AsP YELLOW
Ga P GREEN

T1¾ L.E.D. lamps used on 8-0mm dia. series

Low Intensity

	Forward Voltage	Max. Voltage	Continuous Forward Current	Power Dissipation	Luminous Intensity		Viewing Angle
					Min.	Typical	
RED	1.7V	2.2V	100 mA	180 mW	0.8 mcd	1.6 mcd	80°

High Intensity

	Forward Voltage	Max. Voltage	Continuous Forward Current	Power Dissipation	Luminous Intensity		Viewing Angle
					Min.	Typical	
RED	2.0V	3.0V	35 mA	105 mW	1.2 mcd	4.0 mcd	65°
YELLOW	2.1V	3.0V	35 mA	105 mW	2.5 mcd	6.0 mcd	65°
GREEN	2.2V	3.0V	35 mA	105 mW	0.5 mcd	1.5 mcd	65°

Material { Ga AsP RED
Ga AsP YELLOW
Ga P GREEN

Recommended series resistances for all T1 and T1¾ L.E.D. lamps except T1¾ low intensity Red.

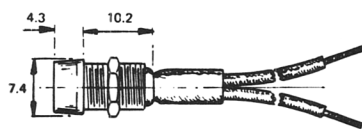
6 volts DC	100 ohms	¼ watt
12 volts DC	270 ohms	1 watt
24 volts DC	560 ohms	2 watt

Recommended series resistances for T1¾ low intensity Red L.E.D. lamps.

6 volts DC	39 ohms	½ watt
12 volts DC	100 ohms	1 watt
24 volts DC	220 ohms	2½ watt

LOW VOLTAGE FILAMENT LAMPS
6-3mm dia. panel hole

SL 40



Max. panel thickness — 6-3mm

Alternative bodies, either chrome finish brass or nylon. Metal bodies threaded 6-2/6-1mm dia. x 40 TPI Whit. Black or white nylon bodies are plain for push-on nut fixing. 200 mm flexible PVC covered leads.

RED, GREEN, AMBER, BLUE or CLEAR polycarbonate lenses.

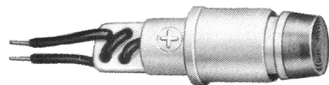
Complete with built-in filament lamp. Voltage range: 5/6V, 12/14V, 24/28V.

SL 40 Brass body.

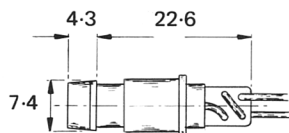
SL 40/C As SL 40 but fitted with loose chrome bezel.

SL 44 Nylon body.

SL 44/C As SL 44 but fitted with loose chrome bezel.

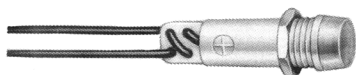


SL 44

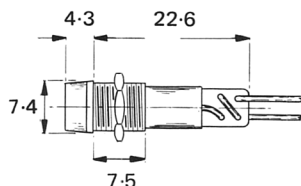


Max. panel thickness - 10-0mm

7-1mm dia. panel hole



SL 244



Nylon body, threaded 7-04/6-95 dia. x 40 TPI Whit. for screwed nut fixing.

200mm flexible PVC covered leads.

RED, GREEN, AMBER, BLUE or CLEAR polycarbonate lenses.

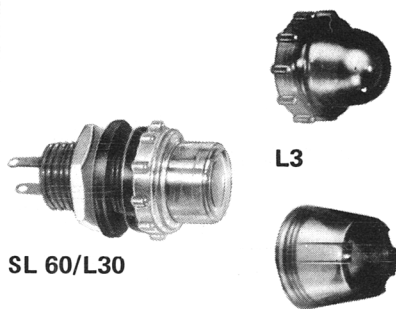
Complete with built-in filament lamp. Voltage range: 5/6V, 12/14V, 24/28V.

Loose chrome finish bezel available. To order add /C to Cat. No.



9.5 mm dia. panel hole

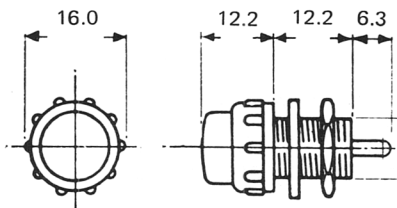
Dimensions in mm



SL 60/L30

L3

L111



Max. panel thickness 8.6mm

LES (E5/8) Bulb

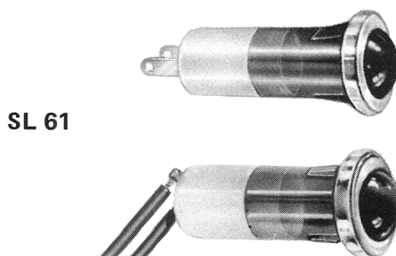
Threaded nylon body for screwed nut fixing. Screwed 9.5/9.3mm dia. x 26 TPI Whit.

Removable polycarbonate lens for front of panel bulb replacement.

Lens No. L30 is standard, but either Lens No. L3 or Lens No. L111 can be supplied.

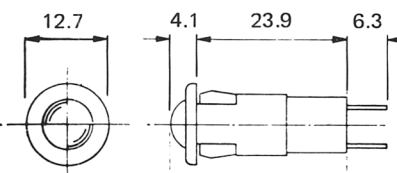
Solder tag connections.

SL 60 LED. Version fitted with T1¼ light emitting diode.



SL 61

SL 61B/WL



Panel thickness between .9 and 1.14mm

LES (E5/8) Bulb

Polycarbonate lens-body, with clips for snap-in panel mounting.

Rear nylon base assembly removable for bulb replacement.

SL 61 Moulded bezel. Solder tags.

SL 61B Chrome bezel. Solder tags;

SL 61/WL Moulded bezel. 200mm PVC covered flexible leads.

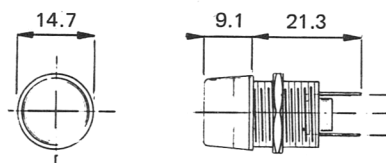
SL 61B/WL Chrome bezel. 200mm PVC covered flexible leads.

Lenses available in:-
RED, GREEN, AMBER, BLUE or CLEAR.

Details of suitable bulbs for signal lampholders
are listed on page 41.

12.7 mm dia. panel hole

**SL 62
SL 63**



Max. panel thickness 9.6mm

T1¼ (6mm), S6s/8 cap midjet flange bulb

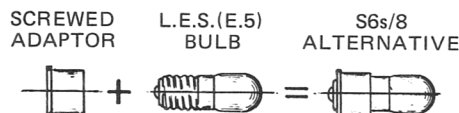
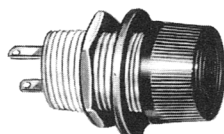
Threaded nylon body for screwed nut fixing. Screwed 11.79/11.68mm dia. x 32 TPI Whit.

Polycarbonate coloured lens. Front of panel bulb replacement. Solder tag connections.

SL 62 Chrome finish bezel. Removable lens/bezel.

SL 62M As above less bezel. Removable lens.

**SL 62M
SL 63M**

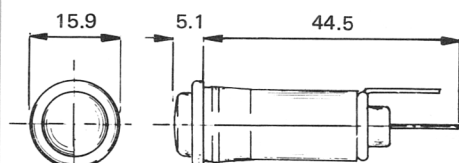


LES (E5/8) Bulb

SL 63 As SL 62, but complete with loose adaptor (see adjacent drawing).

SL 63M As SL 62M, but complete with loose adaptor (see adjacent drawing).

SL 67/C



Max. panel thickness, snap-in fit 1.14mm

BA7s Bulb

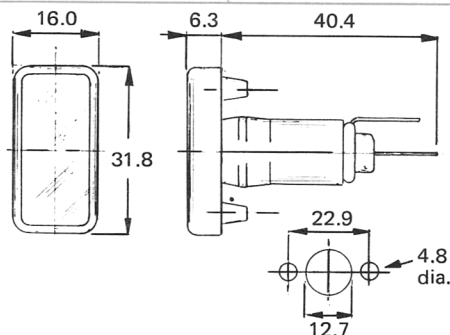
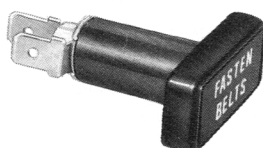
Flexible nylon body for snap-in fixing. Polycarbonate coloured lens.

Bright chrome or matt-black finish front bezels.

Rear base assembly removable for bulb replacement. Supplied complete with bulb.

6.3 tab terminals.

SL 71/C /Legend



Max. panel thickness 2.3mm

BA7s Bulb

Flexible nylon body for snap-in fixing.

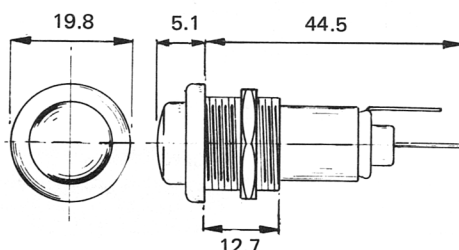
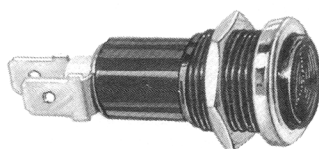
Rear base assembly removable for bulb replacement. Supplied complete with bulb.

6.3 tab terminals. Black bezel.

The legend is not visible until lit. When ordering, please state type of legend required, and the colour.

17.5 mm dia. panel hole

SL 69/C



BA7s Bulb

Threaded nylon body for screwed nut fixing. Screwed 15.75/15.62mm dia. x 26 TPI Whit.

Polycarbonate coloured lens.

Bright chrome or matt-black finish bezel.

Rear base assembly removable for bulb replacement. Supplied complete with bulb.

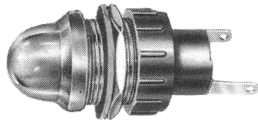
6.3 tab terminals.

**Lenses available in:-
RED, GREEN, AMBER, BLUE or CLEAR**

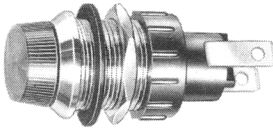
**Details of suitable bulbs for signal lampholders
are listed on page 41**



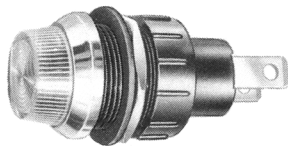
19 mm dia. panel hole



SL 88/L 41



SL 90/C/L 90



SL 390/C/L 90

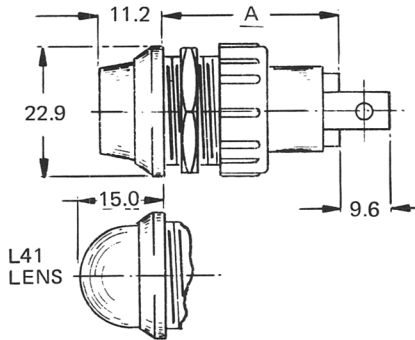


SL 392/C/L 90

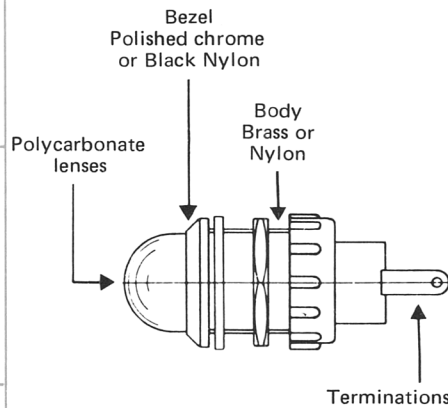


SL 396/L 90

THREAD:—
18.92mm DIA. x 26 TPI WHIT.
18.80mm



Max. panel thickness 6.3mm
(except SL90 which is 11.2mm)



Solder Tags are standard
(Excepting SL 93 and SL 392)

For 6.3mm Tab type add /C to Cat. No.
For 6 BA Screw Terms. add /S to Cat. No.
(Excepting SL 386 and SL 396).

MES (E10) Bulb

Cat. No.	Bezel	Body	'A' Dimension
SL 88	Nylon	Nylon	30.2
SL 89	Nylon	Nylon	24.6
SL 90	Chrome	Brass	35.0
SL 90SB	Chrome	Brass	30.2
SL 99	Chrome	Brass	24.6
SL 390	Chrome	Nylon	30.2

MCC (BA9s) Bulb

SL 93	Chrome	Brass	35.0
SL 382	Nylon	Nylon	35.0
SL 392	Chrome	Nylon	35.0

TWIN LES (E5/8) Bulbs

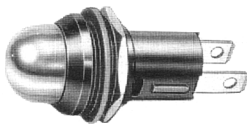
SL 386	Nylon	Nylon	21.3
SL 396	Chrome	Nylon	21.3

Bulbs are accessible from front or rear of panel.
Bulbs are not supplied unless requested, but the following chart indicates those types which are suitable.

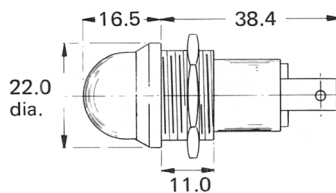
Symbol "RO" means 11mm round bulbs.
Symbol "TU" means 10mm tubular bulbs.

Underlining of symbols means that bulbs may easily be removed by fingers from the front.

Cat Nos.	Suitable bulbs
SL 88, 90SB, 93, 390, 392	RO, <u>TU</u>
SL 90, 382	RO, TU
SL 89, 99	<u>RO</u> , <u>TU</u> with L41 only



SL 138/C/L 41



Max. panel thickness 6.3mm

MCC (BA9s) Bulb

SL 138. Nylon bezel, Nylon body.
SL 139. Chrome bezel, Nylon body.

Bulbs accessible from front only.
Bulbs not supplied unless requested.

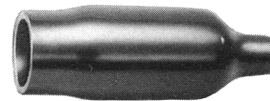
L 90



L 41



Either of these two lenses can be supplied.



58.4 long x 17.8 dia.

Moulded PVC
Insulated Terminal
Cover. Part No. M445
Supplied as an extra.

Lenses available — Transparent RED, AMBER, GREEN, BLUE or CLEAR
Translucent RED, YELLOW or OPAL

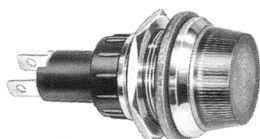
Details of suitable bulbs for signal lampholders are listed on page 41.



25.4 mm dia. panel hole



SL 690/L73



SL 692/C/L117

Overall dimensions of these lampholders and details of alternative lenses on page 31

These indicators are similar in all respects to the 19mm series shown on page 38.

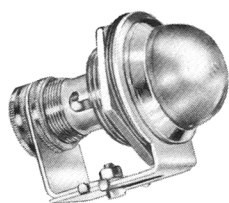
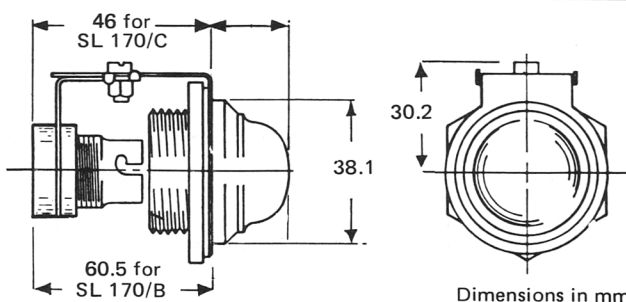
Chrome finish metal body only.

Terminations available as on page 38.

Max. panel thickness 8.7mm.

SL 690 MES (E10) Lampholder.
SL 692 MCC (BA9s) Lampholder.

31.8 mm dia. panel hole

SL 170/C
SL 170/B

SBC Bulb

SL 170/C. Brass lampholder.
SL 170/B. Moulded lampholder.

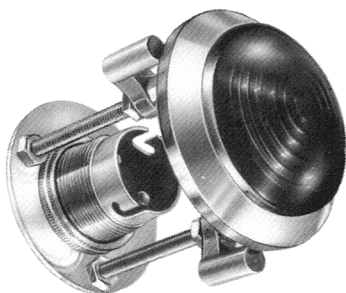
Removable coloured polycarbonate lens for bulb replacement.

Polished chrome bezel.

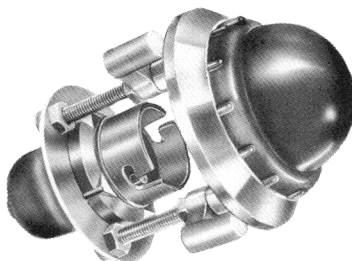
Bezel threaded 31.75mm dia. x 16 TPI Whit.

Max. panel thickness 9.6mm.

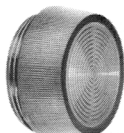
54.1 mm dia. panel hole



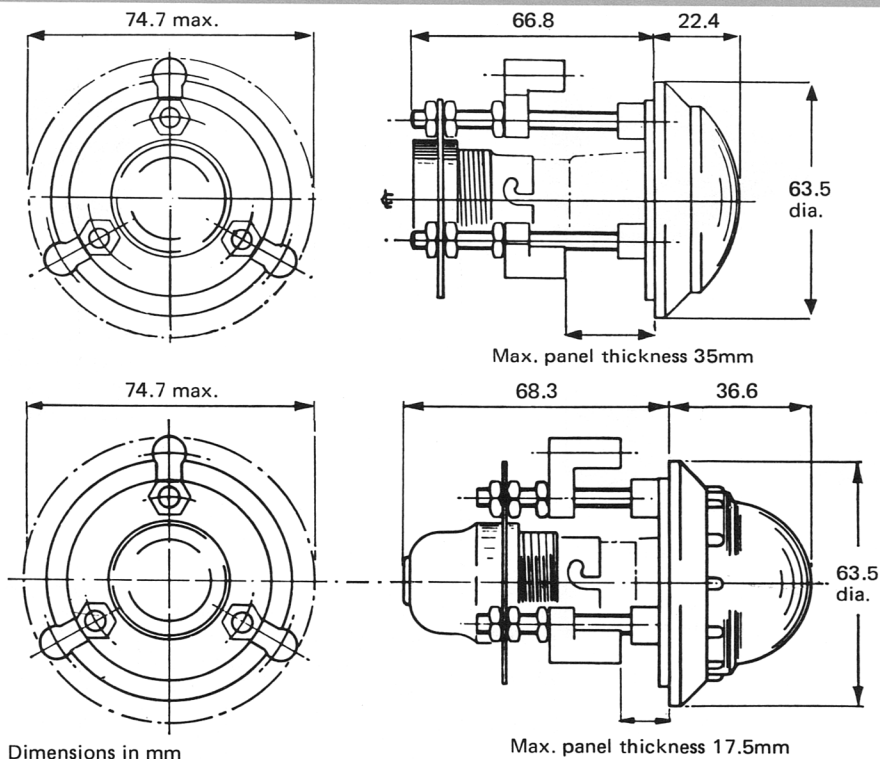
SL 100 (L39 Lens)



SL 102 (L44 Lens)

L123
Lens

Supplied if requested



BC or SBC Bulbs

Removable coloured polycarbonate lenses for bulb replacement.

SL 100 has brass BC lampholder, for a 15 watt pigmy lamp.

SL 102 has moulded BC lampholder, for a 15 watt pigmy lamp.

Polished chrome bezel.

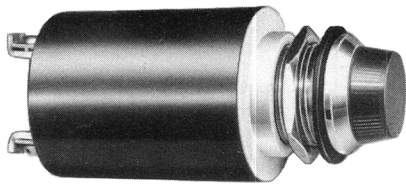
SBC lampholders if requested.

Lenses available in:-
RED, GREEN, AMBER, BLUE or CLEAR

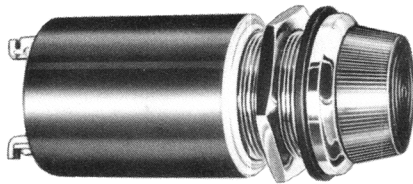
Details of suitable bulbs for signal
lampholders are listed on page 41.



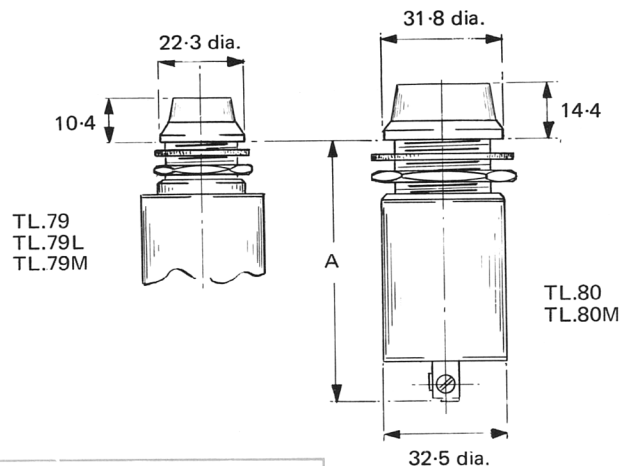
19.0 mm dia. and 25.4 mm dia. panel holes



TL79/L/L90



TL80/L117



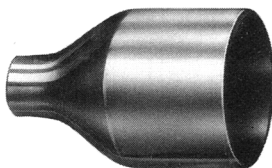
'A' DIMENSION

TL.79	TL.79L	TL.79M	TL.80 TL.80M
67.6	72.1	79.5	71.4

Threaded polycarbonate coloured lenses facilitate bulb replacement. Bulbs must be 6.5 V .15 A.
Transformers are sealed with epoxy resin in moulded cases, polished chrome bezels.
Transformers for the following supply voltages:- 100/120 V AC, 200/250 V AC, 380/440 V AC.
Bulbs supplied with all models.
An electronic flasher unit, sealed in with the transformer, can be supplied.

Lens
Colours

TRANSPARENT Red, Amber, Green, Blue or Clear
TRANSLUCENT Red, Yellow or White



M272

PVC Insulating
terminal cover
which can be
supplied at
extra cost if
requested.



Screwed adaptor T221



L41



L73

Alternative lenses

For the convenience of customers, a screwed adaptor and special bezel can be supplied, enabling a TL79 Transformer unit to be used as a complete TL80 unit.

Cat. No.	Panel Hole	Max. Panel Thickness	Type of Bulb 6.5 Volt	Terminals	Lens Type and Cat. No.	Weight approx.	Extras
T.L.79	19.00 mm ϕ	5.6 mm	11 mm MES Round	5BA screw & Clamp	L41 only	127gr	Third terminal for earthing secondary winding of transformer
T.L.79/C	19.0 mm ϕ	5.6 mm	11 mm MES Round	6.3 Snap-on	L41 only	127gr	
T.L.79/L	19.0 mm ϕ	10.4 mm	11 mm MES Round	5BA Screw & Clamp	L41 or L90	127gr	
T.L.79/M	19.0 mm ϕ	10.4 mm	11 mm MBC Round	5BA Screw & Clamp	L41 or L90	127gr	
T.L.80	25.4 mm ϕ	9.6 mm	11 mm MES Round	5BA Screw & Clamp	L73 or L117	170gr	Legend Plates. Quote: P.387 for T.L.79 P.386 for T.L.80
T.L.80/C	25.4 mm ϕ	9.6 mm	11 mm MES Round	6.3 Snap-on	L73 or L117	170gr	
T.L.80/M	25.4 mm ϕ	9.6 mm	11 mm MBC Round	5BA Screw & Clamp	L73 only	170gr	
T.L.G.80	This model, similar to T.L.80 is fitted with glass lens. Overall sizes supplied on request.						Rubber Washers for Improving Seal between Bezel and Panel and Improving Seal between Lens and Bezel



GUIDANCE ON THE CHOICE OF LOW VOLTAGE BULBS FOR SIGNAL LAMP HOLDERS

Signal Lampholder Cat. No.	Bulb Type	Max. bulb diameter mm.	Max. bulb length mm.	Maximum wattage bulb for continuous running at 20-25°C ambient	Bulb Accessibility from front of panel	Bulb Accessibility from rear of panel	Remarks
				Polycarbonate lens			
SL 60	LES (E5/8)	7	16	1.5	Yes	No	
SL 61	LES (E5/8)	7	16	1.5	No	Yes	
SL 62	T1 ¾ 6mm midget flange S 6s/8 CAP	6	16	1.5	Yes	No	
SL 63	LES (E5/8)	6	16	1.5	Yes	No	
SL 67/C	BA7s	7.5	23	2	No	Yes	
SL 69	BA7s	7.5	23	2	No	Yes	
SL 71	BA7s	7.5	23	2	No	Yes	
SL 88	MES (E10/13)	12	31	3	See chart page 38	Yes	
SL 89	MES (E10/13)	12	31	3		Yes	
SL 90	MES (E10/13)	12	35	3		Yes	
SL 90/SB	MES (E10/13)	12	31	3		Yes	
SL 93	MCC (BA9s)	12	31	3	See chart page 38	Yes	
SL 99	MES (E10/13)	12	31	3		Yes	
SL 138 SL 139	MCC (BA9s)	12	30	3	Yes	No	
SL 390	MES (E10/13)	12	30	3	See chart page 38	Yes	
SL 382 SL 392	MCC (BA9s)	12	30	3		Yes	
SL 690	MES (E10/13)	12	30	3	Yes	Yes	
SL 692	MCC (BA9s)	12	30	3	Yes	Yes	

If bulbs are alight only intermittently the wattage ratings given above may be exceeded.

For higher ambient temperatures than 20-25°C and use in confined spaces the bulb rating may need to be reduced.

SIGNAL LAMP LENSES

When ordering as spares, please state colour.
Available in TRANSPARENT or TRANSLUCENT material.
Polycarbonate suitable for temperatures up to 130°C.

Cat. No.	Description	Thread Details	Effective Length of Thread
L 2	Polycarbonate lens as supplied on SL 82	·870"/·865" dia. x 16 T.P.I. WHIT (EXTERNAL)	·16"
L 3	Polycarbonate lens as supplied on SL 80. Transparent RED, AMBER and CLEAR only.	·472"/·467" dia. x 32 T.P.I. WHIT (INTERNAL)	
L 8	Similar to above L 3 but smaller internal thread fits SL 78. Transparent RED, AMBER and CLEAR only.	·381"/·377" dia. x 26 T.P.I. WHIT (INTERNAL)	
L 30	Polycarbonate lens as supplied on SL 60	·472"/·467" dia. x 32 T.P.I. WHIT (INTERNAL)	
L 39	Polycarbonate lens as supplied on SL 100	1·788"/1·783" dia. x 12 T.P.I. WHIT (EXTERNAL)	·23"
L 40	Polycarbonate lens as supplied on SL 170	·992"/·987" dia. x 16 T.P.I. WHIT (EXTERNAL)	·28"
L 41	Polycarbonate lens as supplied on SL 90, SL 88 etc.	·615"/·610" dia. x 26 T.P.I. WHIT (EXTERNAL)	·17"
L 44	Polycarbonate lens as supplied on SL 102	1·788"/1·783" dia. x 12 T.P.I. WHIT (EXTERNAL)	·22"
L 73	Polycarbonate lens as supplied on TL 80	·872"/·868" dia. x 26 T.P.I. WHIT (EXTERNAL)	·25"
L 90	Polycarbonate lens as supplied on SL 390	·615"/·610" dia. x 26 T.P.I. WHIT (EXTERNAL)	·19"
L 99	Polycarbonate lens as supplied on SL 77	·495"/·492" dia. x 32 T.P.I. WHIT (EXTERNAL)	·07"
L 111	Polycarbonate lens as supplied on SL 60	·472"/·467" dia. x 32 T.P.I. WHIT (EXTERNAL)	
L 117	Polycarbonate lens as supplied on TL 80	·872"/·868" dia. x 26 T.P.I. WHIT (EXTERNAL)	·36"
L 123	Polycarbonate lens as supplied on SL 100	1·788"/1·783" dia. x 12 T.P.I. WHIT (EXTERNAL)	·28"



L 84

Moulded polycarbonate in all colours.

14.6mm long x 8.5mm wide.

Snap-in fit in panel cut-out:-
13.1/13.0 x 7.1/7.0mm.

Panel thickness between .75 and 1.3mm.



L 54

Moulded polycarbonate in all colours.

Interchangeable with Post Office Cap.
Lamp. No. 1.

9.5mm dia. 6.1mm deep lens area.
6.7mm dia. bore.

Push fit in panel cut-out 7.9mm dia.



SL 97

All moulded



SL 96

Chrome finish bezel

Moulded polycarbonate lenses. All colours.

Threaded 9.4/9.3mm dia. x 26 TPI Whit.

16 mm dia. bezel. 12.7 mm dia. lens area.

Panel cut-out 9.5mm dia.

Panel thickness max. 4.8mm



SL 65

All moulded



SL 70

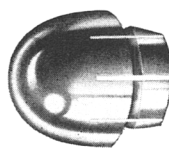
Chrome finish

Moulded polycarbonate lenses. All colours.

22.4mm dia. bezel 19mm dia. lens area.
Panel cut-out 19mm dia.

Threaded 18.9/18.8mm dia. x 26 TPI Whit.

Panel thickness (10.4 for SL 65
max. (7.1 for SL 70



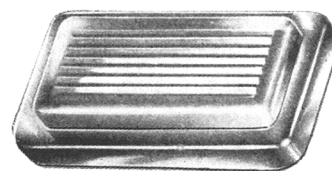
L 14

Moulded snap-in lens. All colours.

19mm dia. x 12.7mm deeps.

Panel cut-out 16.1/16.0mm dia.

Snap-in fit in panel 3.0mm max.



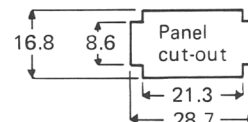
SL 53

Chrome finish bezel

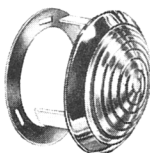
Moulded polycarbonate lens. All colours.

36.6mm long, 22.4mm wide, 7.1mm deep.

Held in panel
by bending
rear tags.



SL 103



Moulded lens, all colours, chrome
finish bezel.

46.0mm dia., 12.7mm deep.

Panel cut-out 38.1mm dia.

Max. panel thickness 9.6mm.

SL 106



SL 103 unit
supplied complete with
BC lampholder.

**K 76
POINTER
KNOB**



Moulded in black nylon, white optional.
Moulded-in brass insert for 6-35 dia. spindle.
Grub screw fixing.
19mm dia. 12.7mm deep. 31.7mm over pointer.

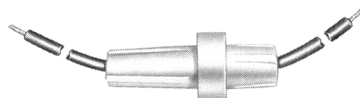


**L 94
Black**

**L 95
White**

Architectural
lampholder for
curved or
straight
tubes

38.1mm long, 25.4mm wide, 33.1mm
high. Single 2BA fixing.



IN-LINE FUSE HOLDER

Moulded in natural colour nylon.
Supplied without fuses or leads.

F33. Overall length 36.5mm.
For 15.9mm long x 4.7mm dia. fuses
or 20mm long x 5mm dia. fuses.

F35. Overall length 50.8mm.
For 31.7mm long x 6.3mm dia. fuses

Fuses 5 amp maximum.



T 36

Ball bearing turntable for small direc-
tional portable radios.

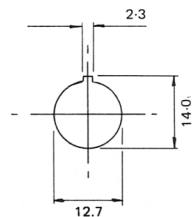
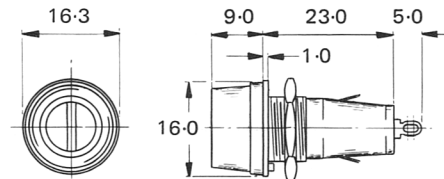
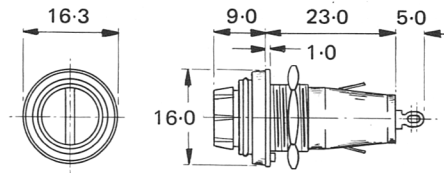
81.8mm dia. 3-fixing holes 4.1mm
dia. on 47.8mm p.c.d. equally spaced.



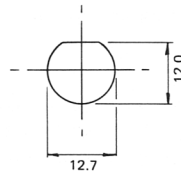
FH 332



FH 333



Panel hole 'A'
Max. panel thickness
3.5



Panel hole 'B'
Max. panel thickness
4.5

Designed to comply with all the latest international safety standards.

Alternative versions available i.e.

Release of fuse carrier by fingers or
Release of fuse carrier by screwdriver.

Moulded nylon body and fuse carrier. Body threaded for screwed nut fixing.

Silver plated solder tag terminations.

Alternatives for either 5 mm dia. x 20 mm fuses or 3/16" dia. x 5/8" fuses.

Max. rating 6-3A. 250V. AC.

Fuses not supplied.

FINGER RELEASE

FH 330 3/16" dia. x 5/8" Fuse. Panel hole 'A'.

FH 332 5mm dia. x 20mm Fuse. Panel hole 'A'.

FH 334 3/16" dia. x 5/8" Fuse. Panel hole 'B'.

FH 336 5mm dia. x 20mm Fuse. Panel hole 'B'.

SCREWDRIVER RELEASE

FH 331 3/16" dia. x 5/8" Fuse. Panel hole 'A'.

FH 333 5mm dia. x 20mm Fuse. Panel hole 'A'.

FH 335 3/16" dia. x 5/8" Fuse. Panel hole 'B'.

FH 337 5mm dia. x 20mm Fuse. Panel hole 'B'.

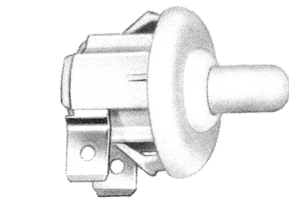
*Registered Office:* CENTRAL AVENUE · EAST MOLESEY · SURREY · ENGLAND KT8 0RF.*Telephone:* STD 01-979 3232 10 lines*Cables:* ARCOLECTRIC MOLESEY*V.A.T. Registration Number:* 211 3314 30*Telex Number:* 24959

DIRECTORS	Rodney Collier: Chairman and Managing Director Robert Harris: Secretary and Export Sales Manager John Harris: Technical Director
SALES PERSONNEL	Home Sales Manager: Peter Dillistone Assistant Sales Manager: Richard Entract Home Sales Engineers: Howard Cowley, Graham Woods-Smith and Chris Macdonald. Export Sales Manager: Robert Harris Assistant Export Manager: Roger Sign
OFFICE HOURS	9.0 a.m. — 5.0 p.m. Monday to Friday.
PRODUCTION	Some of the most modern factories in Europe employing 600 people. In East Molesey two factories with 75,000 square feet of space making moulding tools, press tools, plastic mouldings, metal stampings, turned metal parts and coiled springs. The final assembly of many switches is now fully automated on computer controlled assembly machines. A third factory in Aldershot — 6,500 square feet, assembling neon indicators.
INSPECTORATE APPROVAL	Ministry of Defence specification 0529.
EXPORT	More than a quarter of sales are to overseas customers. Our products are assembled and distributed in U.S.A. by Arcoelectric Corporation, North Hollywood, California. Arcoelectric Switches Limited has a minority share interest in Arcoelectric Corporation.
GOVERNMENT CONTRACTORS	Arcoelectric Switches Ltd. are contractors to the Ministry of Defence, Crown Agents, British Railways, Post Office, B.B.C., I.T.A., Municipal Authorities, Shipping Companies, Nationalised Corporations, Government Research Establishments and Leading Electrical Manufacturers.
FINANCIAL	An independent, totally British Company. A public company since 1958 in the name Arcoelectric (Holdings) Ltd. Two-thirds of the shares are controlled by the working Directors. Sales are currently running at the rate of £3½ million per year.
REGISTRARS	Metcalf Blake & Co., 86 Cannon Street, London, EC4N 6HT. On request they will be pleased to supply copies of our Annual Reports.
AUDITORS	Deloitte, Haskins & Sells, 128 Queen Victoria Street, London, EC4P 4JX.
SOLICITORS	Herbert Smith & Co., 62 London Wall, London, EC2. Rowe & Maw, 15 Devereux Court, Essex Street, London. Braby & Waller, 2 Hind Court, Fleet Street, London, EC4A 3DS.
BANKERS	Barclays Bank Limited, 2 York Street, Twickenham, Middlesex.
HISTORY	1932: The original company, Collier Electric Co. Ltd. was established by Richard Collier. Electrical components were manufactured in small factories, at first in Croydon and later in Twickenham. 1939: H. C. Harris joined the company and it was reformed with the name Arcoelectric Switches Ltd. derived by taking the "Ar" from Harris and the "Col" from Collier. 1947: The company moved to East Molesey. 1958: Arcoelectric Holdings Ltd. was formed. 1959: Richard Collier died. 1966: The No. 2 factory at East Molesey was opened. 1973: The No. 3 factory at Aldershot was opened. 1976: H. C. Harris died.
PATENTS COPYRIGHTS ETC.	This catalogue is the Copyright of Arcoelectric Switches Limited and cancels all previous catalogues. Most Arcoelectric products are covered by Patents or Registered Designs. Prompt action will be taken in the case of any infringement. The name ARCOLECTRIC is a Registered Trade Mark.

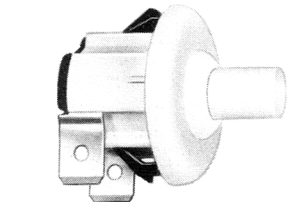
0-4A. 250V ~



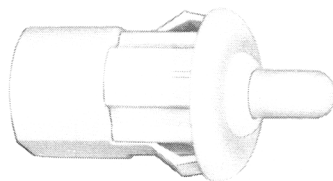
55 and 56



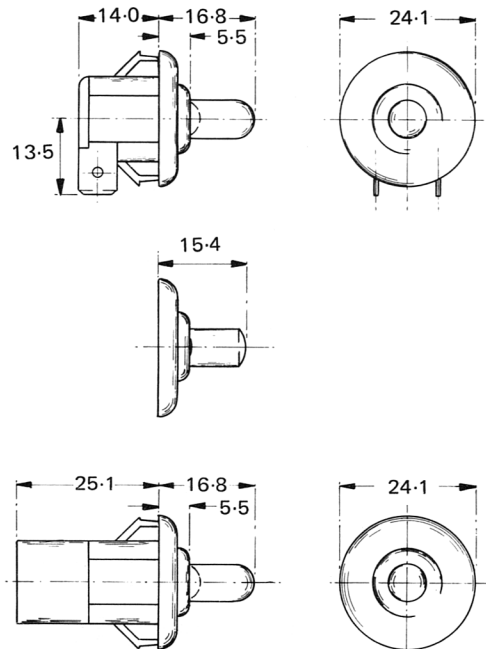
B 55R



B 55F



B 56



Max. plunger travel - 9.6

All insulated moulded body, with integral nylon clips for snap-in panel mounting.

Slow make and break, normally closed single pole switch action.

Nylon plunger with overtravel.

6-3 Tab terminals.

Operating pressure: 280gr. approx.

Panel cut-out: 19.2 dia. hole.
19.05

		Min.	Max.
Panel	B 55R	1.0	1.6
	B 55F	1.0	1.6
Thickness	B 56	1.0	2.6

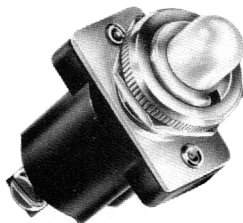
Details of approvals on page 18.

Please state whether refrigerator or oven light application.

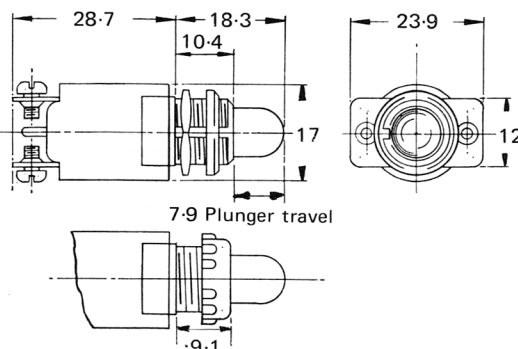
0-2A. 250V ~



930



S 930



Max. panel thickness - 4.8 on metal necks
4.1 on nylon necks

Fixing necks 11.79 mm dia. x 32 TPI Whit.
11.68

Panel hole: 12.7mm dia. or cut-out

Slow make and break, normally closed SP switch action.

Metal or moulded nylon fixing necks.

Alternative panel fixing nuts on page 16.

S 930 5 BA. Screw Terminals

C 930 6-3 Tab Terminals

T 930 Solder Tags

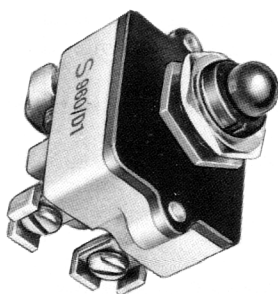
For moulded necks, add /DI to Cat. No. eg. C 930/DI.

Splashproof covers on page 16.

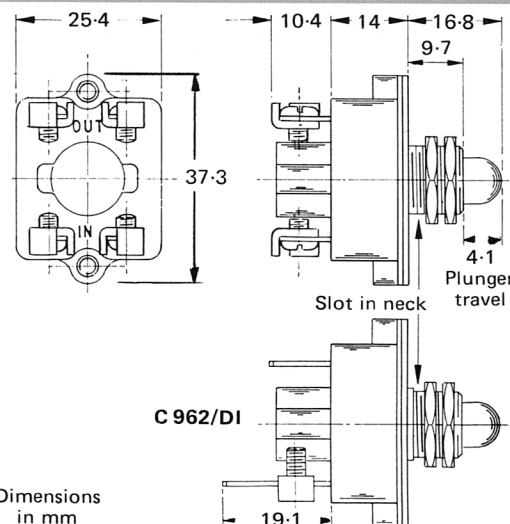
15(3)A. 250V ~



960



S 960/DI



Dimensions in mm

Fixing necks 11.79 mm dia. x 32 TPI Whit.
11.68

Panel hole: 12.7mm dia.

Max. Panel thickness: 5.8mm

All insulated moulded body and nylon neck. Slow make and break single or double pole normally open switch action. Nylon plunger with overtravel.

Alternative panel fixing nuts on page 16.

Operating pressure: 1120gr. approx.

S 960/DI Double pole. Screw terminals.

C 960/DI As above with 6-3 Tab terminals.

S 960F/DI As S 960/DI with flat top plunger.

S 961/DI Single pole version of S 960/DI.

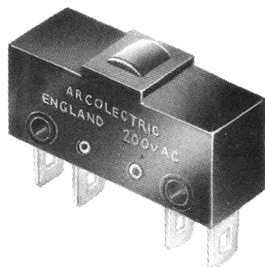
C 962/DI As C 960/DI, with duplex incoming terminals for screw and tab connection.

Approved switches on page 18.

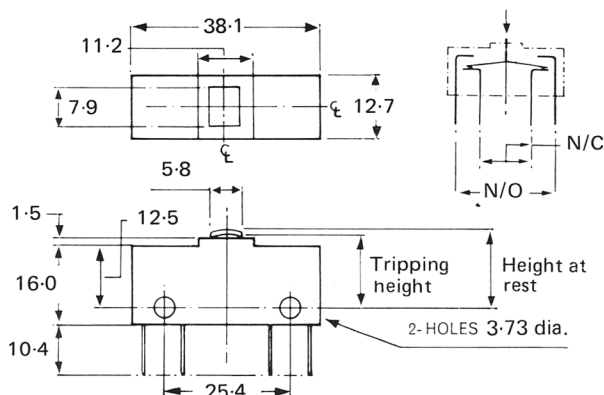
B.S.I. approved Cat. No. 1960 etc.



15A. 250V ~



C 290

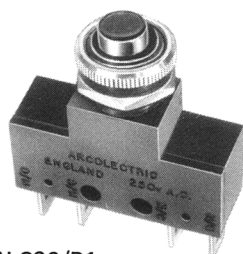


Normally 'CLOSED' or normally 'OPEN' depending on terminal connections.

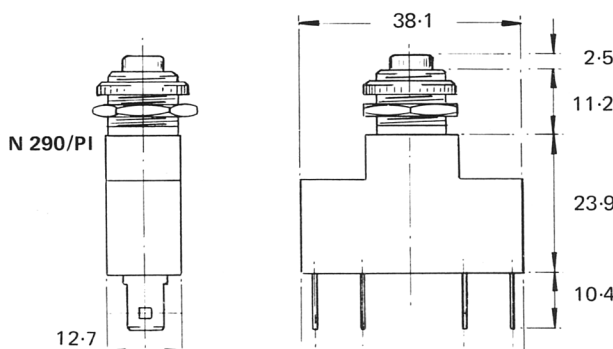
6.3mm Tab Terminals.

Height at rest 15.6mm
Tripping point height 14.5mm
Movement differential 5.0mm
Available overtravel Plunger flush with case.

Operating force: C 290 680 gr. approx.



N 290/P1



Fixing necks screwed:

11.79 mm dia. x 32 TPI Whit.
11.68 mm dia. x 32 TPI Whit.

Panel hole: 12.7 dia. except /KR series.

Drawing below shows special panel cut-out, to accept moulded adaptor, use on /KR series.

Max. Panel thickness: 5.6mm.

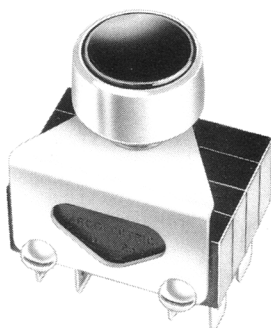
6.3 Tab Terminals.

Press button colours: Black, Red, Green or White.

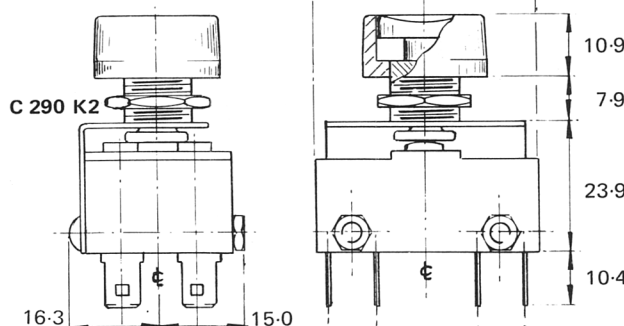
Fixing rings on 'P' series chrome finish.

Shrouds on 'K' series anodised aluminium.

Shrouds on 'KR' series, moulded natural colour or finished matt or bright chrome. Splashproof covers for 'P' series on page 16.



C 290/K2



Single Pole Switches

All Nylon

- N 290/P1 Standard Press Button
- N 290/K1 Circular Press Button (Shrouded)
- N 290/KR1 Rectangular Press Button (Shrouded)
- N 290/L1 As /K1 less Button & Shroud

Double Pole Switches

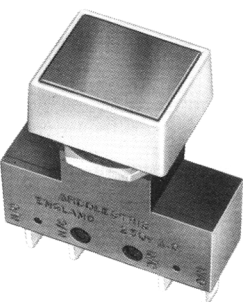
Metal Bush and mounting bracket

- C 290/P2 Standard Press Button
- C 290/K2 Circular Press Button (Shrouded)
- C 290/KR2 Rectangular Press Button (Shrouded)
- C 290/L2 As /K2 less Button & Shroud

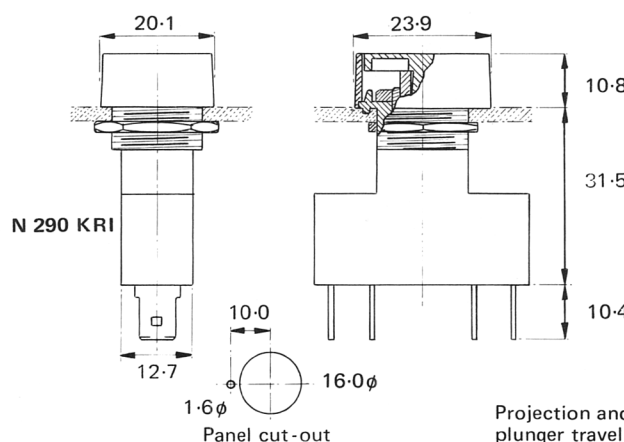
Single Pole Switches

Metal Bush and mounting bracket

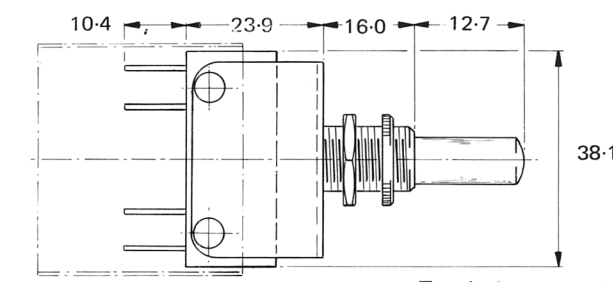
- C 290/P1/TDA Special version having 12.7 plunger movement including overtravel.



N 290/KR1



C 290/TDA



C 290/P1/TDA

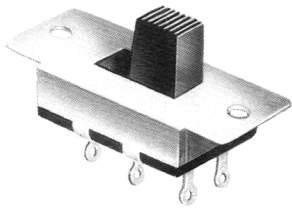
Dimensions in mm

Terminal cover can be supplied as an extra.

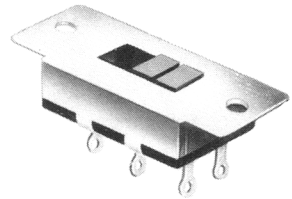


0.5A. 125V. ~

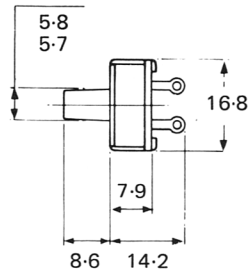
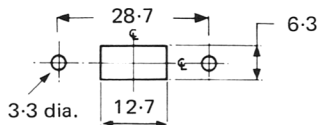
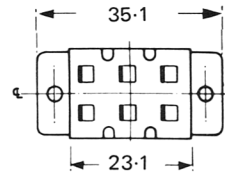
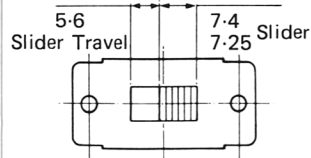
SLIDE SWITCHES



T 225



T 225/SD



Panel cut-out

Black moulded slider. Other colours to order.

Solder tags standard.

Special terminals for printed circuits add /PCD to Cat. No.

16mm high slider, add /LD to Cat. No.

Shallow slotted slider add /SD to Cat. No.

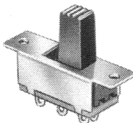
T 216 SP. On/Off

T 218 2-Circuit C/O

T 220 SP. C/O

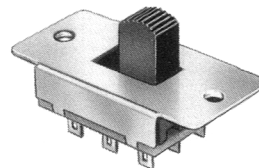
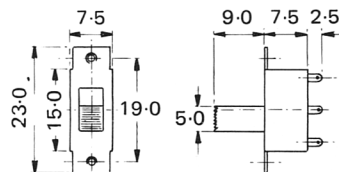
T 222 DP. On/Off

T 225 DP. C/O



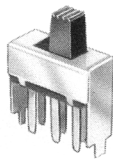
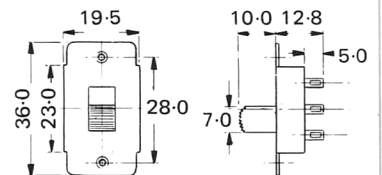
S 530

DP. C/O 9mm Moulded Slider
1.0A. 125V. AC.



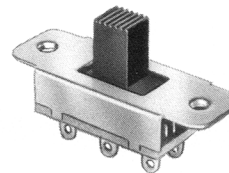
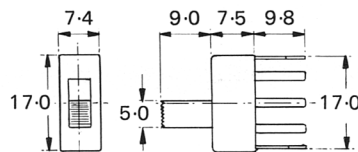
S 505

TP. C/O 10mm Moulded Slider
0.5A. 125V. AC.



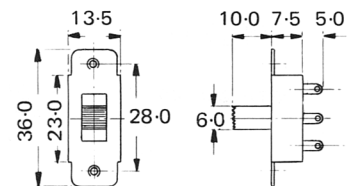
S 306

DP. C/O Insert Type
9mm Moulded Slider
0.3A. 125V. AC.



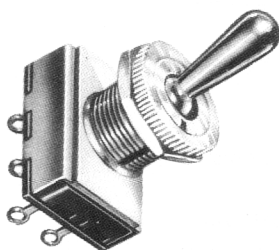
S 535

DP. C/O Centre 'OFF'
10mm Moulded Slider
0.5A. 125V. AC.

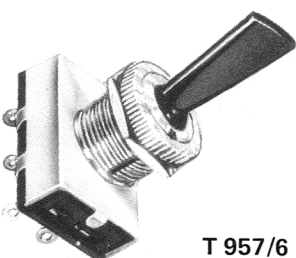


0.5A. 125V. ~

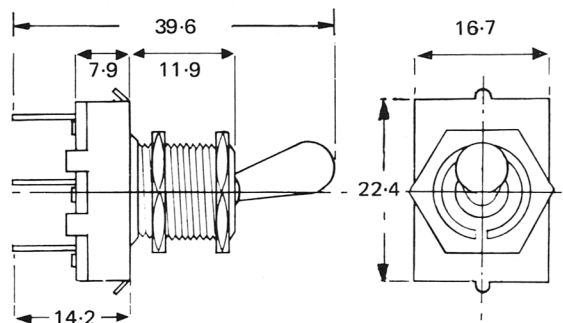
LEVER SWITCHES



T 957



T 957/6



Nylon lever sizes on page 9.

Fixing neck 11.79mm dia. x 32
11.68mm dia. x 32
T.P.I. Whit.

Panel hole — 12.7mm dia.

Max. panel thickness — 6.3mm.

Low contact resistance, self-cleaning slide action. Silver plated contacts.

Nickel-plated metal levers are standard, chrome finish extra.

Alternative nylon levers shown on page 9.

Example: T 957/6 illustrated.

Laminated bakelite or moulded nylon bases supplied at extra cost.

Solder tags standard.

T 953 SP. On/Off

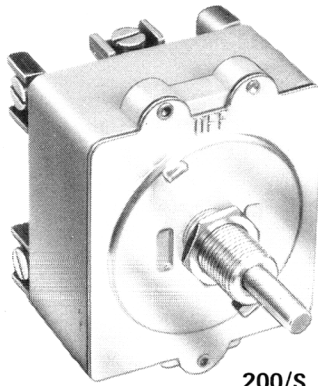
T 954 2-Circuit C/O

T 955 SP. C/O

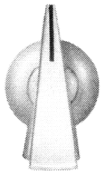
T 956 DP. On/Off

T 957 DP. C/O

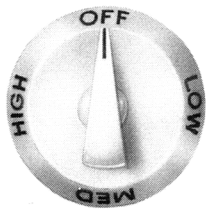
Dimensions in mm



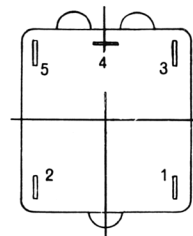
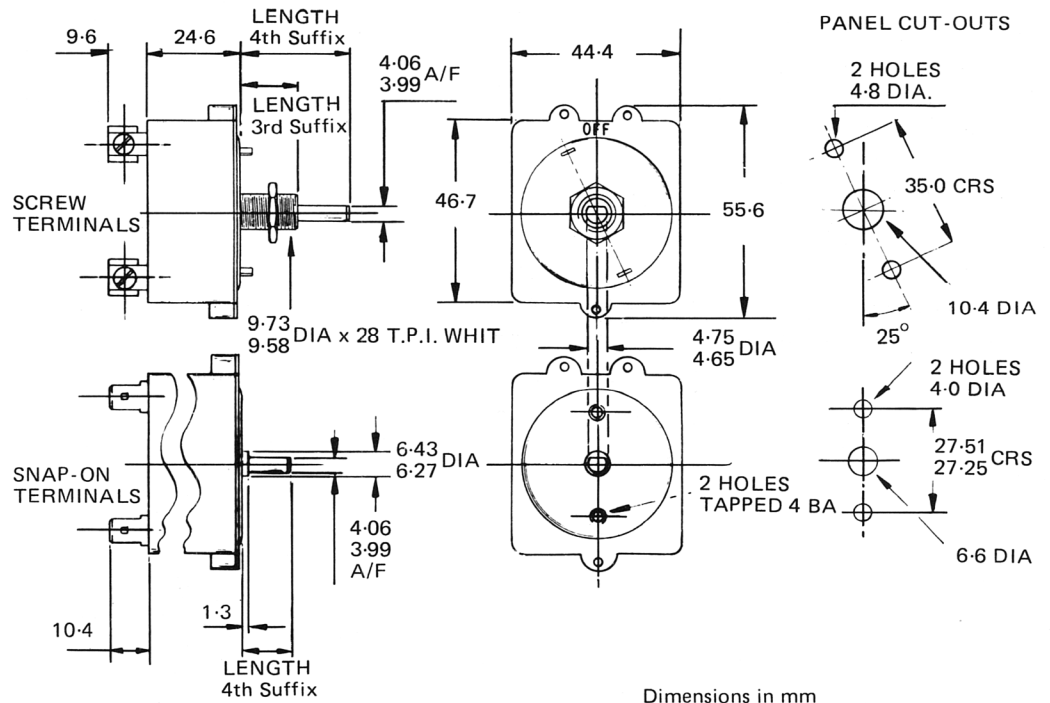
200/S



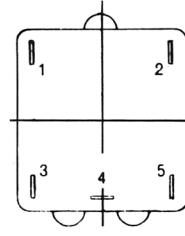
Knob K 240



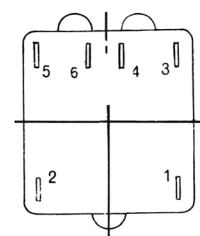
Knob K 241



5 - Terminal
Standard
arrangement



5 - Terminal
Reversed
arrangement
207 and 212
only



6 - Terminal
Standard
arrangement

TERMINAL POSITIONS VIEWED FROM REAR

Switches with 5 - Terminals in 3, 4 and 5 position types
Switches with 6 - Terminals also available

See drawing above for terminal positions.

All switches have a spring loaded snap action.

Two mounting arrangements available:—

- (1) Threaded bush and nut fixing which is standard
- (2) Plain bush with 2 - 4 BA. tapped fixing holes.

Drawing above gives details.

Switches have D - Section spindles for push-on knobs.

Illustrated are 2 - knobs which can be supplied at extra cost.

K 241 suitable for 200 only.

Chart below gives details of all variations available. When ordering place the appropriate suffixes in correct order at rear of the switch basic number. Details of basic numbers in the chart on opposite page.
As an example:— 200/C/R/X/5.

1st SUFFIX		2nd SUFFIX			3rd SUFFIX				4th SUFFIX						
Terminals		Cover Plate			Centre Bush (length)				Spindle (length)						
C	S	Q	R	S	U	V	W	X	1	2	3	4	5	6	7
6.3 Tab.	4 BA Screw & Clamp	No. locating Spurts	With locating Spurts	4 BA Tapped fixing holes	5.6	10.4	12.7	15.0	12.2	19.0	22.3	25.4	27.7	29.8	34.1