Arcolectric

ARCOLECTRIC SWITCHES p.l.c. · CENTRAL AVENUE · EAST MOLESEY · SURREY · ENGLAND Tel: 01-979 3232 Telex: 24959 ARCMOL G



A range of high quality components including Switches, Indicator Lights and Fuse Holders. Most products have a full range of international approvals





Arcolectric Switches p.l.c.

Registered in London, England No. 357431

Registered Office:

Central Avenue, East Molesey, Surrey,

England KT8 0RF

Telephone: STD 01.979 3232 10 lines

Cables:

Arcolectric Molesey.

Telex Number: 24959 ARCMOL

VAT Registration Number: 211 3314 30

BANKERS

Barclays Bank p.l.c. 2 High Stret, East Molesey, Surrey Sort code 20-94-62 Acc. No. 60122106

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 Arcolectric Switches Ltd. derived by taking the 'Ar' from Harris and the "Col" from Collier.

1947: The company moved to East Molesey.

1958: Arcolectric 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.

1980: The No. 4 factory at Aldershot was opened.

Rodney Collier, B.Sc.(Econ.) Chairman and Managing Director

John Harris Technical Director

Arthur Arnold Engineering Director

HOME SALES

Peter Dillistone, Manager Richard Entract, Asst. Manager

EXPORT SALES

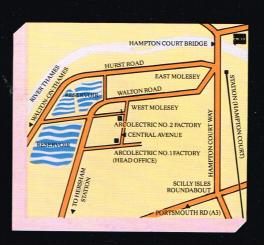
Howard Cowley, Manager Roger Sign, Asst. Manager

U.K. Sales Areas

Graham Wood-Smith Area Manager, Central England

Chris Macdonald, Area Manager, Northern England

Tony Lane, Technical Representative, Southern Area



The Arcolectric factories drawn on the map are 10 miles South of London Airport, Heathrow, and 3 miles north east of B.E.A.B., Mark House, Hersham.

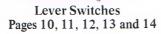
Arcolectric Products

Arcolectric specialise in the manufacture of switches, indicator lights, fuse holders and other small electrical components. They have been designed to meet the requirements of makers of domestic and industrial equipment. Over nearly fifty years we have established a reputation for high quality components that are convenient to use, well styled and internationally accepted as electrically safe.

Design collaboration with customer's engineers ensures that there is a steady flow of new products every year. Typical customers are manufacturers of washing machines, deep freezers, coffee makers, central heating controls, battery chargers, photo-copying equipment, computers, electronic measuring equipment and motor vehicles.





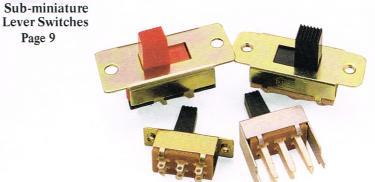




Miniature Push Switches Pages 16 and 17



Door Switches Pages 16 and 17



Slide Switches Page 15

Page 9



INDEX

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

Cat. No. Page	Cat. No. Page	Cat. No. Pa	ge	Cat. No. Page	Cat. No. Page
L2 41	TL81, /C 40	, ==::= :::::::::::::::::::::::::::::::		N290KI, KMI, KRI 18	T600 10
L3 41	TL82, /C, /M 40	SL176, /WL 3		N290LI, PI 18	BC601/C 10
T4 19	L84 43	SL177/C, /WL 2	28	C290/PI, /TDA 18	BC603/C 10
T5 19	SL88 38		27	C290K2, KM2, KR2 18	BC605/C, S/C 10
L8 41	SL88/N 30	SL180/B, /Br, /E	В/ ¦	C290 L2, P2 18	BC606/C 10
M10 19	SL89 38	WL 2	29	SL295WL, /WL/C 23	F610, /C 10
L14 43	L90 41	SL181/B 2	29	SL297, /232 23	BC620/C 11
N17 27	SL90 38	SL184 2	27	S306 15	T620, /PC 11
T18 19	SL90/N 30	SL185, /K 2	27	ST310, 311 21	T630 11
N20 26	SL90SB 38		29	M323 19	SL686 39
P23 19	T92 19		19	M327 19	SL687 31
L30 41	SL93 38	SL186, /WL 2	27	FH330, 331 42	SL688 30
V30 9	L94, 95 43		27	M331 19	SL689 31
F33 to 35 42	SL96, 97 43	SL189 2	27	FH332, 337 42	SL690 39
P36 19	L99 41	SL190 2	29	SL381 30	SL691 31
L39 to 40 41	SL99 38	SL193/N, /WL 2	28	SL382 38	SL692 39
SL40, 40C 36	SL100, 102 39	1	33	SL385 30	SL693
L41 41	SL103 43		33	SL386 38	SL694
NS41 21	MT106D to 106H 9	MT206N to 206T	9	P386 to P387 40	SL695 31
SL41, 41/C 22	SL106 43	I	15	SL390 38	SL696 39
SL42 to 43V 34	L111 41	t <u> </u>	40	SL391 30	SL697 31
L44 41	P116 19	T222 1	15	SL392 38	C863, 873 12
SL44, 44/C 36	SL115, 116 37	T225, /SD 1	15	SL395 30	C884 to 889 14
SL45, 45/C 22	L117 41	1	23	SL396 38	T916 to 920 16
SL46 to 46A/C 34	L123 41	SL233 2	23	M398 19	C936 to T938L/DI 16
SL48 to 48/P/L 35	SL138 38	SL238 3	33	SR401 to 422 4	C960/DI to 962/DI 17
M51 19	SL138/N 30	i .	36	M441 5	SR1400 to 1420 4
SL52 32	SL139 38	SL245, /C	22	LN430 to 435/1 6	SR1400HD, HP 8
NS53 21	SL139/N 30		34	M445 31	SR1400 HX, HY 8
SL53 43	L14141	1	32	SR451 to 471 5	SR1400F/SR1400F . 7
L54 43	SL145, /WL 22	i control of the cont	25	M472 19	SR1400F/SR1400FJ 7
B55F to B56 17	SL158/WL 33	T262 1	19	LN480 to 483 6	SR1450 to 1490 5
SL57 to 58S 32	M159/WL 33		25	LN480/1 8	SR1450HD, HP 8
SL60, LED 36	SL159/C, /2C, /WL 33	1	25	S505 15	SR1450HX, HY 8
SL61 to 61B/WL 36	SL160 28	t =	25	M506 19	SN1453/1 8
SL62 to 63M 37	SL162 28	1 _	24	M516 5	C1800 to 1820 12
SL65 43	SL163 28	ł _	25	S519 17	C1850 to 1862 12
SL67/C 37	SL164, /WL 24	!	24	M520 42	SS2000 Series 15
SL67/N, /N/WL 28	SL166 24	1	24	S530 15	C2700 to 2735 13
SL69/C 37	SL168, /B 24		25	M535 19	R2700 to 2735 13
SL69/N, /N/WL 29	SLC168	-	40	S535 15	C2744-2749 14
SL70 43	SL16924		23	M539 19	SR5400 to 5403 4
SL71/C 37				S539 17	
L73 41		SL275, /WL 2	26	P551 40	'E' Series 20 'D' Series 20
K76 43	SL171/C 32		26	SL579, /WL 29	'D' Series
SL78 24	SL172/C 32		26	SL586, /WL 27	81/0789/50 43
TL79, /C, /L/M 40	P173 19	· · · · · · · · · · · · · · · · · · ·	19	SL589, /WL 27	01/0/03/30 43
SL80 28	SL173/C 32			T590, /C 10	
	NC174 43		26	BC600, /C, P/C 10	
TLG80 40	P174 19	SL285, /WL		F600/C 10	
	SL174/C 32			G600	
1					

EXPLANATION OF PREFIXES USED IN CATALOGUE NUMBERS

Catalogue numbers listed on pages 4 to 8 inclusive referring to Rocker Switches, have a prefix identification the explanation of which, is as follows:—

SR = Switch, rocker.

SN = Switch, neon illumination.

SG = Switch, green illumination.

SF = Switch, low voltage illumination.

LN = Indicator light, neon.

LG = Indicator light, green.

LF = Indicator light, low voltage illumination.

BEZEL

Bezel

'Z'



SINGLE POLE SIZE

Style

Terminal

Numbers

ON/OFF

ON/OFF

Momen, on

Cat. No. printed on switch has to match approval listing and may differ from ordering number.

Style No.

SR 1400

SR 401

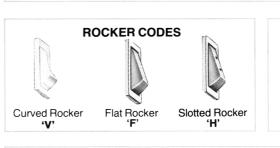
10A 250V AC Resistive 3A 250V AC Inductive 20A 6, 12 or 24V DC

On request, Style No. SR 1400 switches only, can be supplied with larger silver contacts for 16 (4) A.

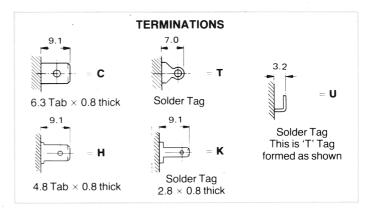
To order use following method:-

Style No., + Rocker Code letter + Panel Cut-out Ref. + Terminal letter

Example: **SR 1400 VQC** = On/off switch, curved rocker, Ref. Q panel cut-out, and 6.3 tab terminals.



	PANEL C	UT-OUTS	
11.6 11.5	12.3 12.2	11.1 11.0	14.0 14.1
	27 3 27 2	30.1	28.5 28.6
Ref 'Q'	Ref 'A'	Ref 'M'	Ref 'R'
Snap-in fixing t	Panel hickness:	.75 min. 2.5 max. for solic	I fixing clips.
		For thicker panel correct length of	s please enquire for cut-out.



For chrome bezel, add letter 'Z' to Cat. No. Example: SR 1400 VQCZ. Not available with 'M' panel cut-out.

Switches for panel cut-out Ref 'R' are 'Q' size switches supplied with a special adaptor.

Body and Rocker colours, and voltage should be stated on order.

Colours:-

Body and Rocker

: Many standard colours.

Matt finish available on 'A' size switches only,

curved rockers only.

Illuminated Rocker

: Red, Amber, Green, Clear or Blue (Blue with filament lamps only)

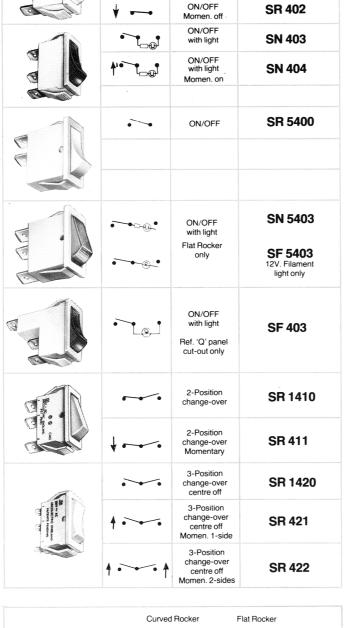
Voltage Range:-

Neon and fluorescent Filament lamps : Below 100V (Specify), 100/130V, 200/250V.

: 6/8V, 12/14V, 24/28V.

Approvals

: See Publication No. 200.



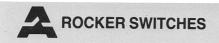
SF 403

(30.9) Ref. 'M

30.2

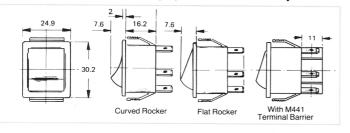
SR 5400

SN 5403



DOUBLE POLE SIZE Cat. No. printed on switch has to match approval listing and may differ from ordering number. Terminal Numbers Style Style No. **SR 1450** ON/OFF * SR 1450 SP ON/OFF **SR 451** Momen. on ON/OFF **SR 452** Momen. off ON/OFF with light **SN 1453** Curved Rocker only **SR 1460** 2-position changeover * SR 1460 SP 2-position changeover Momentary **SR 461** Single Pole 2-position **SR 1462** 2-circuit 3-position **SR 1470** changeover **SR 1470 SP** centre off 3-position changeover **SR 471** centre off Momen, 1-side S.P. Switch **SN 1456** (,) Isol. Light D.P. Switch **SN 1457** S.P. Switch **SN 1458** S.P. Switch Momen, on **SN 1459** Isol. Light 2-position **SN 1465** changeover with Light Single Pole changeover lsol. Light **SN 1466** D.P. Switch 1---Light in one **SN 1490** Line

* Suffix SP means a single pole switch in this body



10A 250V AC Resistive 3A 250V AC Inductive 20A 6, 12 or 24V DC

On request, Style No. SR 1450 switches only, can be supplied with larger silver contacts for 16 (4) A.

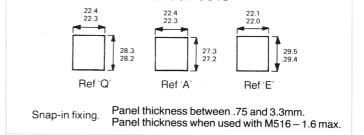
To order use following method:-

Style No., + Rocker Code letter + Panel Cut-out Ref. + Terminal letter

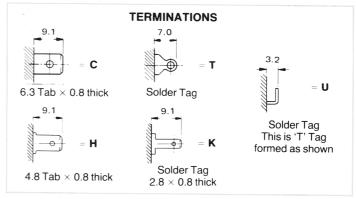
Example: **SR 1450 VQC** = On/off switch, curved rocker, Ref. Q panel cut-out, and 6.3 tab terminals.

ROCKER CODES Curved Rocker 'V' 'F' 'H'





PANEL CUT-OUTS



For chrome bezel, add letter 'Z' to Cat. No. Example: SR 1450 VQCZ. For terminal barrier add M441. Example: SR 1450 VQC/M441.

Moulded guard to prevent accidental operation of switch available to fit panel cut-out Ref 'E' Add **M516** to Cat. No.

Body and Rocker colours, and voltage should be stated on order.

Colours:-

Body and Rocker

: Many standard colours.

Matt finish available on 'A' size switches only.

Illuminated Rocker

: Red, Amber, Green, Clear or Blue (Blue with filament lamps only)

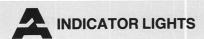
Voltage Range:-Neon and fluorescent Filament lamps

Below 100V (Specify), 100/130V, 200/250V.

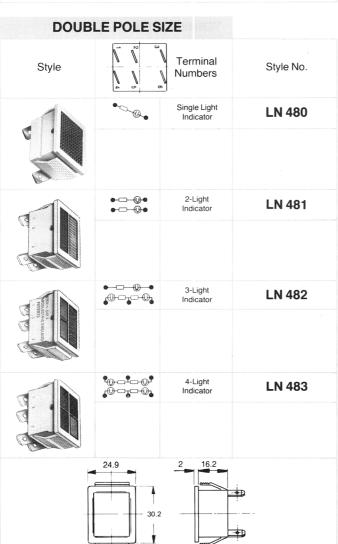
6/8V, 12/14V, 24/28V.

Approvals : See Publication No. 200.

	SPECIFICATION S.P. a	and D.P. SWITCHES	
Contact Resistance	10m Ω in new condition.	Humidity Resistance	48 hours at 91%—95% relative humidity
Insulation Resistance	$>$ 20M Ω .	Impact Resistance	> 0.5N _m
Proof Voltage	1,000V R.M.S. across contacts in open circuit.	Life	> 10,000 operations on rated loading at a rate of 15 operations per minute.
Dielectric Strength	> 3KV between live poles, and between live poles and exposed metal.	Weight	S.P – 8gr approx. D.P – 12gr approx
Force required to		Body and Rocker (Opaque)	Nylon 66.
operate rocker	1.5Kg.	Rocker (Transparent)	Polycarbonate.
Temperature Range	-25°C to 85°C at rated current.	Terminals and Moving Contact.	Brass, Silver plated.
	T125°C on request.	Contact Points	Fine Silver.



Cat. No. printed on switch has to match approval listing and may differ from ordering number. SINGLE POLE SIZE Terminal Style Style No. Numbers Single Light LN 430 •—• Indicato 2-Light **LN 431** 907 (flex leads only) 2-Light **LN 433** indicato Single Light LN 435 •—• Single Light LN 435/1 Matching Switch •—— (Not illustrated) See drg below 3.5 16.2 **(30.9)** 30.2 435 435/1



To order use following method:-

Single Light indicators (430 Series)

Style No., + Panel Cut-out Ref. + Terminal letter

(Panel Cut-out references on page 4)

Example: LN 430 QC = Single light indicator, Ref 'Q' panel cut-out, 6.3 tab terminals.

Body colour and lens colour to be stated on order.

2-light indicators (430 Series)

Style No., + Panel Cut-out Ref. + Terminal letter + Lens colours and

locations.

Example: LN 433 QC. 1R. 2A. Diagram 6.

Diagram 6

1 2

For lens colour abbreviations, see below.

Single light indicators (480 Series)

Style No., + Panel Cut-out Ref. + Terminal letter.

(Panel Cut-out references on page 5)

LN 480 QC = Single light indicator, Ref 'Q' panel Example:

cut-out, 6.3 tab terminals.

Body colour and lens colour to be stated on order.

Multi-light indicators (480 Series)

Style No., + Panel Cut-out Ref. + Terminal letter + lens colours and

locations.

LN 482 QC. 1R. 2A. 3G. Diagram 9. Example:

Diagram 7 Diagram 8

Diagram 9

Diagram 10

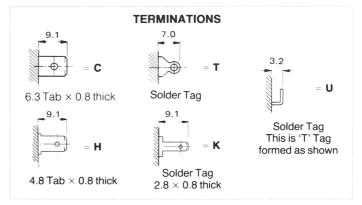
2

481

1 3 2

482

For lens colour abbreviations, see below.



For Chrome bezel, add letter 'Z' to Cat. No. Example: LN 430 QCZ (Illustrations on pages 4 and 5). Not available on 'M' panel cut-out. For moulded terminal barrier (double pole size only) add M441 to Cat. Example: LN 480 QC/M441 (Illustration on page 5)

Body colour, lens colours and voltage must be stated on order.

Colours:-

Body

: Many standard colours.

Matt finish available on 'A' size only

Lens Red (R), Amber (A), Green (G),

Clear (CL), Blue (BL),

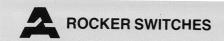
(Blue with filament lamps only).

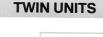
Voltage Range:-Neon and fluorescent

Below 100V (Specify), 100/130V, 200/250V, 380/440V. 85° max. T125°C max. on request.

Temperature range Filament lamps Approvals

6/8V, 12/14V, 24/28V : See Publication No. 200





On-Off

On-Off with

Light

Style

Cat. No. printed on switch has to match approval listing and may differ from ordering number.

Style No.

SR 1400 F

LN 430

SN 1403 F

SR 1400 F

SR 1400 F

SN 1403 F

These units consist of combinations of single pole switches or single pole switches and indicator lights, assembled into a double pole size body.

To order use the following method:-

Style Nos. + Rocker Code letters (where applicable), + Panel Cut-out Ref + Terminal letter + Diagram No.

(Switch Styles on page 4. Indicator light styles on page 6) Flat rockers only on these units

Units available to fit all double pole panel cut-outs Ref. Nos. 'Q', 'A', and 'E' shown page 5.

Examples: SR 1400 FC/SR 1400 FQC. Diag. 1

SR 1400 FC/LN 433 QC, 1R,2G. Diag. 4. SN 1403 FCR/SN1403 FQCR Diag. 1.

(Letter 'R' in last example indicates colour of illuminated

rocker). Lens colour abbreviations on page 6.



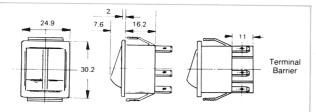








Selection of available units



Terminal Numbers

On-Off

Single

Indicator

On-Off

with Light

Light

For chrome bezel, add letter 'Z' to Cat. No.

Example: SR 1400 FC/SR 1400 FQCZ. Diag. 1.

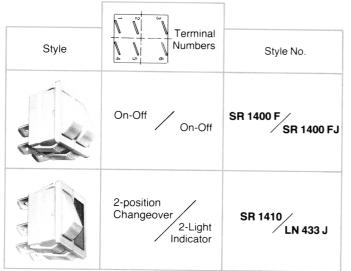
For insulating rear terminal barrier, add M441 to Cat. No.

Example: SR 1400 FC/SR 1400 FQC/M441

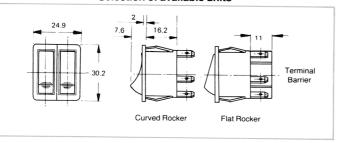
Voltage ranges. specifications etc. on pages 4 and 6.

Approvals: See publication No. 200.

DUAL UNITS



Selection of available units



1400 / 1400J SERIES

These units are similar in all respects to the twin units above, excepting that they consist of separate single pole units assembled together to fit a double pole size panel cut-out.

To order, use formula shown above for twin units.

Flat or curved rockers

Units available to fit Ref 'Q' panel cut-out only shown on page 5. Note, that Catalogue Nos. for these units have a distinguishing suffix 'U'

Examples: SR 1400 FC/SR 1400 FQCJ. Diag. 1.

SR 1400 FC/LN 433 QCJ, 1R,2G. Diag. 4. SN 1403 FCR/SN 1403 FQCJR. Diag. 1.

(Letter 'R' in last example indicates colour of illuminated

rocker). Lens colour abbreviations on page 6.

Diagrams as above.

For chrome bezel, add letter 'Z' to Cat. No.

Example: SR 1400 FC/SR 1400 FQCJZ. Diag. 1.

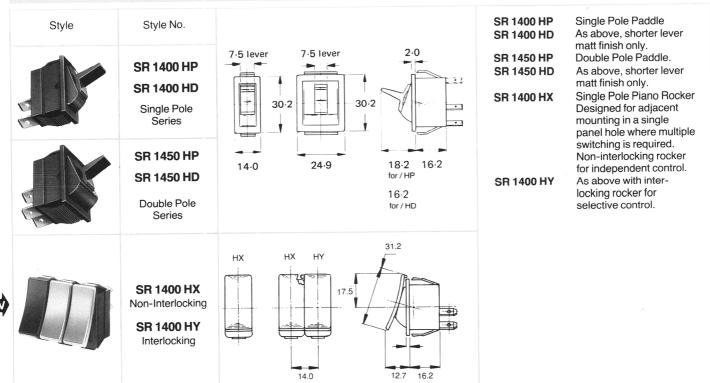
For insulating rear terminal barrier, add M441 to Cat. No.

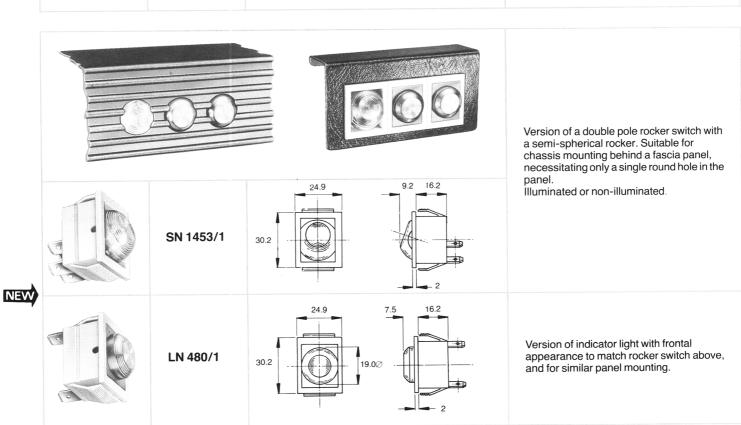
Example: SR 1400 FC/SR 1400 FQCJ/M441

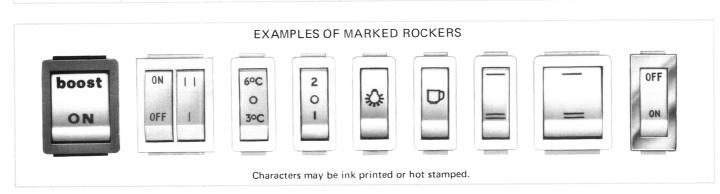
Voltage ranges, specifications etc. on page 4 and 6.

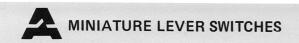
ROCKER SWITCHES

1400 and 1450 SERIES





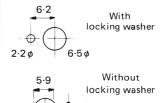




3A. 250V. AC. SINGLE POLE Switch Type Cat. No. MT106D MT106D 2-pos C/O MTV106D MT106F 2-pos C/O MTV106F Momentary MT106E 3-pos C/O centre off MTV106E **MTV106D** 3-pos C/O MT106H centre off MTV106H Printed Momen. 1-side Circuit Right Angle Vertical 3-pos C/O MT106G centre off MTV106G Momen. 2-sides

10.5 8.0 14.5 8.0 13.0 13.0 9.5 13.0 9.5

Metal fixing necks screwed: 6·3/6·2mm dia. x 40 T.P.I. Whit, and will fit the following panel cut-outs:-



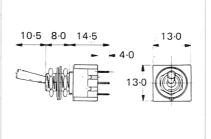
or plain 6.5 ø hole.

3A. 250V. AC.

DOUBLE POLE



Swi	tch Type	Cat. No.
II	2-pos C/O	MT206N
	2-pos C/O Momentary	MT206R
II	3-pos C/O centre off	MT206P
	3-pos C/O centre off Momen. 1-side	MT206T
	3-pos C/O centre off Momen. 2-sides	MT206S



Max. panel thickness:-

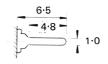
With locking washer 2.7 Without locking washer 3.7

Chrome finish lever and neck.

Phenolic moulded case.

2mm wide x ·8mm thick solder tag terminations.

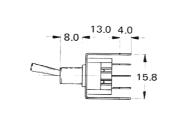
Printed circuit terminations details below.

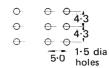


MT206N

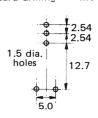
V30 BRACKET

Support Bracket for use with single or double pole switches having printed circuit terminals.



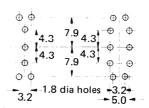


Single Pole Double Pole
Board drilling MT Series



Single Pole

Board drilling MTV Series



Single Pole

Double Pole

Board drilling when using V30 bracket.

SPECIFICATIONS

Rating: 3A. 250 V. AC.

Initial Contact Resistance: 10 milliohms maximum (after 3 successive on-off

cycles at 2-4V. DC. and 0·1A.).

Dielectric Strength: 1,000 V. AC. (Between terminals or terminals and

ground, for one minute).

Insulation Resistance: 1,000 megohms minimum.
Humidity Resistance: Exceeds 10 megohms after

Humidity Resistance: Exceeds 10 megohms after exposure to 95% R.H. and

40°C for 48 hours.

Overload Capacity: Can be operated at 50 times at 150% of rated current

at rate of 5 cycles per minute.

Electrical Life: 10,000 cycles minimum (at rated voltage and current,

at rate of 10 to 30 cycles per minute).

Mechanical Life: 100,000 cycles minimum.

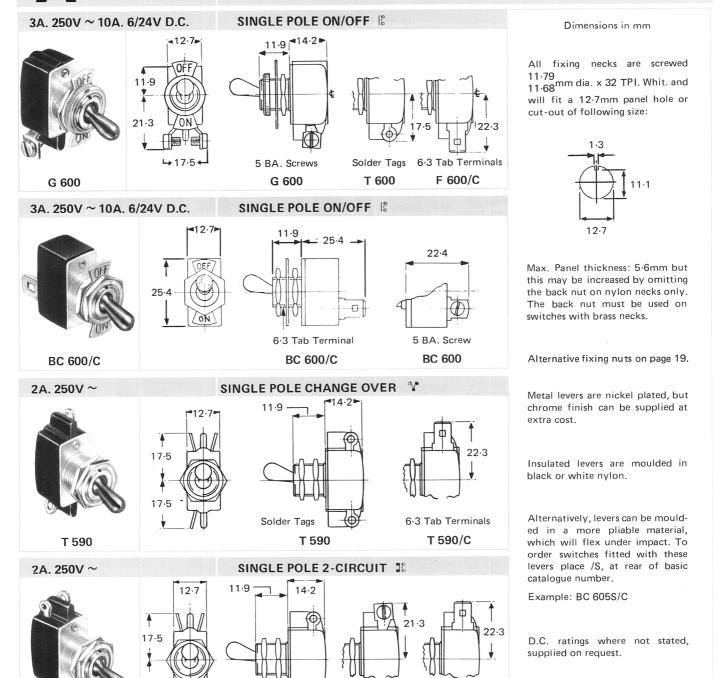
Corrosion Resistance: No corrosion on metal parts after 50 hours salt spray.

(5% solution).

Contact Materials: Coin Silver (standard).

Details of approved switches are

listed in separate publication, No. 200





5 BA. Screw

F 610

6.3 Tab Terminals

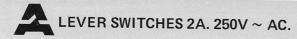
F 610/C

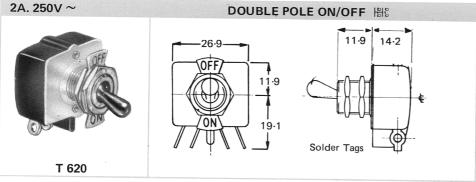
Solder Tags

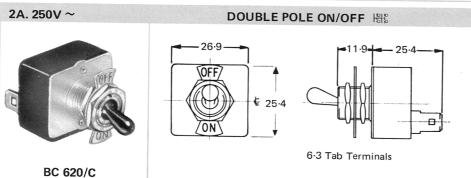
T 610

T 610

Full range of levers shown on page 11







Dimensions in mm

Fixing neck details as page 10

Panel cut-out details as page 10

Panel thickness as page 10

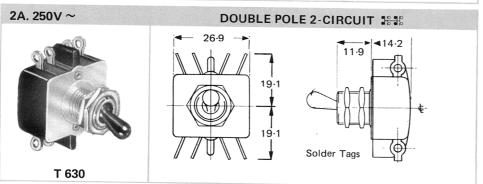
Alternative fixing nuts on page 19.

Details of metal and insulated levers shown below.

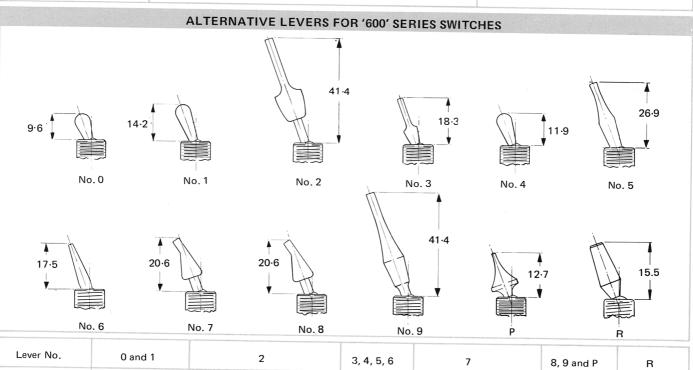
D.C. and low voltage ratings on request.

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

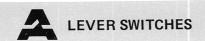
Details of approved switches are listed in separate publication.



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



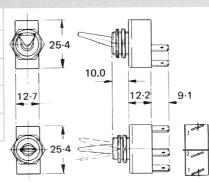
Lever No.	0 and 1	2	3, 4, 5, 6	7	8, 9 and P	R
Lever Material	Nickel Plated Brass	Nylon lever moulded on chrome brass shaft	Nylon	Nylon lever moulded on chrome brass shaft	Nylon	Chrome Plated Brass
Fixing neck Material	Nickel Plated Brass	Chrome Plated Brass	Nylon	Chrome Plated Brass	Nylon	Chrome Plated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





SINGLE POLE Switch Type Cat. No. ON/OFF 1800 ON/OFF Momen. on 1801 2-pos C/O 1810 3-pos C/O centre off 1820

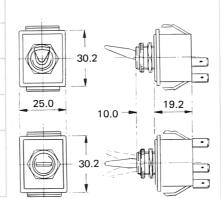
All the lever styles shown below are available on these switches



C1810M

DOUBLE POLE 10(3)A. 250V ~ Cat. No. Switch Type 1850 ON/OFF 2-pos C/O 1860 3-pos C/O C1850G 1870 centre off Single Pole 1862 2-pos C/O Double Pole 2-Circuit Size Body

C1860H Lever styles 'E' 'G' 'H' 'R' and 'S' are available on these switches



Fixing necks screwed: 11.79 mm dia. x 32 TPI Whit. and will fit a 12.7mm dia. panel hole, or cut-out as page 10.

Max. Panel thickness: 3.5mm. This may be increased by omitting back nut.

Chrome finish slotted fixing rings are supplied, but details of alternative rings and splashproof covers on page 19.

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

2.8 Tab terminals = K

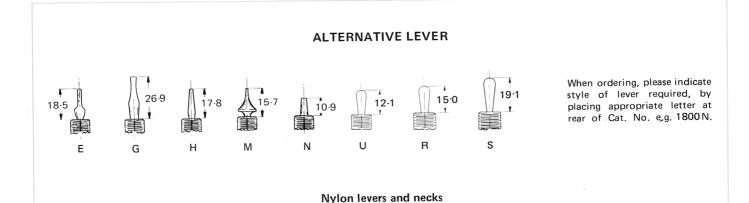
Solder tags = T

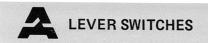
5 BA screws = **S** (1800, 1801 only)

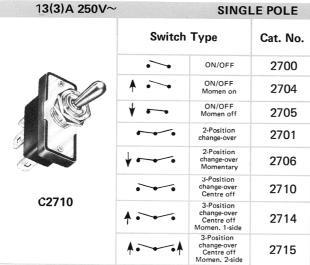
Further dimensions for terminals shown on page 5.

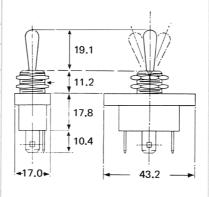
Details of approved switches are listed in publication No. 200

DOUBLE POLE (REVERSING) 13(3)A. 250V Cat. No Switch Type All switch details as above. 2-pos C/O 863 Reversing To order with 6.3 tab terminals 3-pos C/O 873 prefix Cat. No. with letter 'C'. centre off 11.2 Reversing 25.4 18.0 5 BA Screw terminals = S All the lever styles shown below are available on these C863H switches









Metal levers only are standard on this series.

For moulded levers refer to page 12.

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

and will fit a 12.7mm dia. panel hole, or cut-out as page 10.

Max. Panel thickness: 5.6mm.

Back nut must be used.

Details of alternative rings and splashproof covers on page 19.

To order with 6.3 tab terminals prefix Cat. No. with letter 'C'

For screw and clamp terminals use letter 'S'.

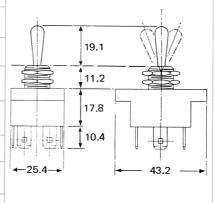


13(3)A 250V ~

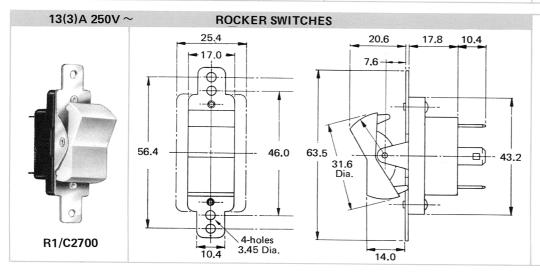
C2730

	ON/OFF	2720
A :::	ON/OFF Momen. on	2724
↓	ON/OFF Momen. off	2725
II	2-position change over	2721
† III	2-Position change-over Momentary	2726
II	3-Position change-over centre off	2730
	3-Position change-over centre off Momen. 1-side	2734
	3-Position change-over centre off Momen, 2-sides	2735
	2 position change over reversing	2723
	2-position change over reversing Momentary	2727
	3-position change over centre off reversing	2733
, ,	2-position single pole 2-circuit change over	2702
*	2-position single pole 2-circuit change over Momentary	2707

DOUBLE POLE



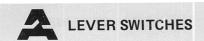
Please note that ON/OFF switches Nos. 2700 and 2720 only, can be supplied, on request, for 16 amp, and will be marked with this rating.

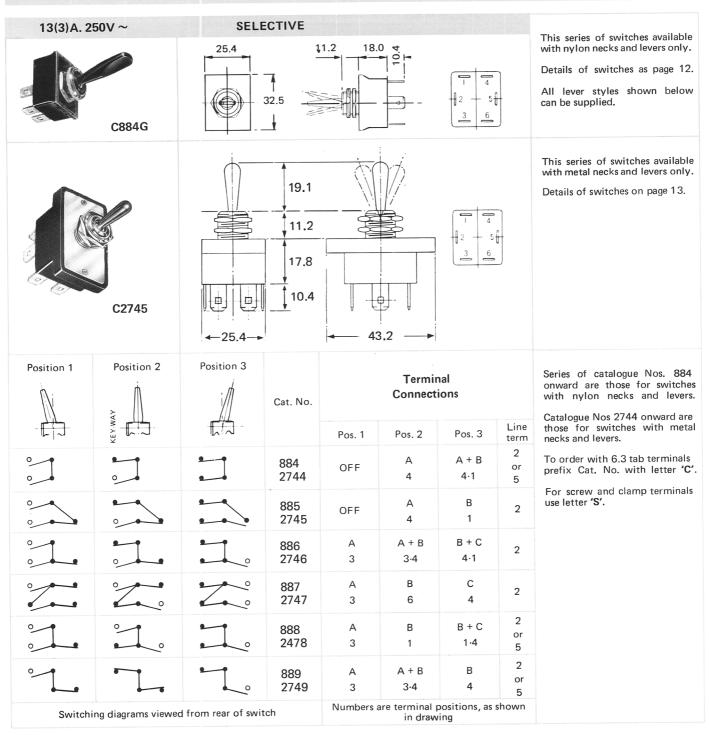


Rocker version of the switches tabulated above.

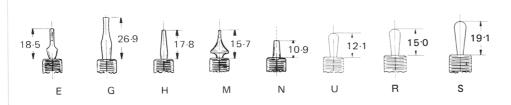
Rockers can be supplied in various colours.

To order prefix Cat. No. from chart above with 'R1'. Example: R1/C2700.

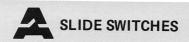


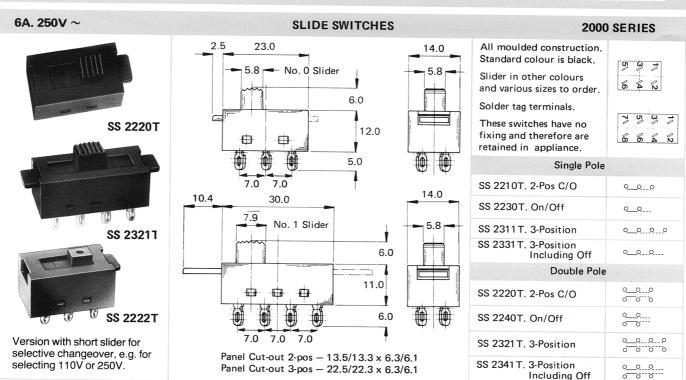


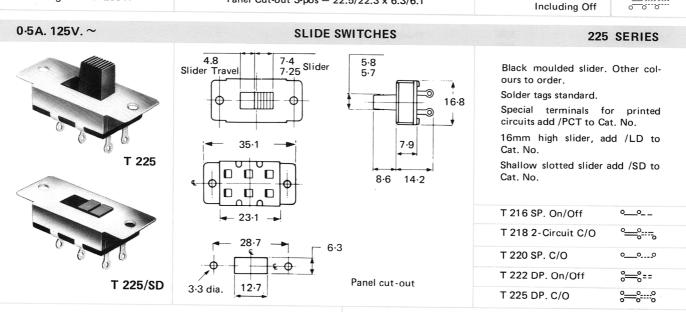




When ordering, please indicate style of lever required, by placing appropriate letter at rear of Cat. No. e.g. 884 G

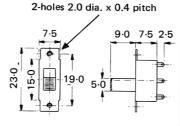








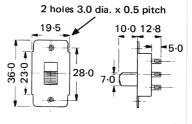
\$ 530 DP. C/O 9mm Moulded Slider 0.5A. 125V. AC.



Panel cut-out -8.5×4.5



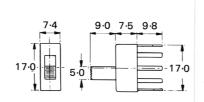
\$ 505TP. C/O 10mm Moulded Slider 0.5A. 125V. AC.



Panel cut-out - 12.0 x 7.0



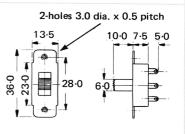
\$ 306 DP. C/O Insert Type 9mm Moulded Slider 0·3A. 125V. AC.



Panel cut-out - 8.5 x 4.5



\$ 535 DP. C/O Centre 'OFF' 10mm Moulded Slider 0.5A. 125V. AC.



Panel cut-out -12.0×7.0



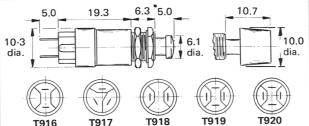


T 919



T 919L

916 - 920



T 916	Push for on	n/o	作
T 917	Change-over	(50Volt)	\sim
T 918	Push for off	n/c	3
T 919	2-Circuit		9 0
T 920	Push for on	n/o	1910

Max. Plunger Movement 2.5

23.9

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.

Alternative snap-on press buttons in 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:

Less back nut Both nuts

2.5

4.0

0.5A. 250V ~

0.25A. 250V DC

28.7

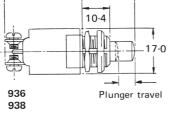
936 and 938



S 936/D1 and S 938/D1

S 936 K,KM and

S 938 K,KM

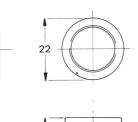


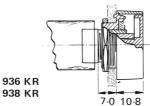


'X' Dimension 936 - 19·8mm 938 - 17·5mm

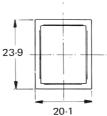
936 DI 938 DI

936 K.KM 938 K,KM 936 & 936L - 6·3mm 938 & 938 L - 4·1mm 936 K,KM & 938 K,KM - 1.5mm 936 KR & 938 KR - 3·0mm





7.4 10.9



Fixing necks screwed:

11.79 11.68^{mm} dia. x 32 TPI Whit.

12.2

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 18.

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, White or Blue. Spashproof covers on page 19.

Metal fixing necks nickel finish.

'K' shrouds, anodized aluminium.

'KM' shrouds, moulded. Many colours.

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

Slow make or break action.

Current carrying parts silver plated.

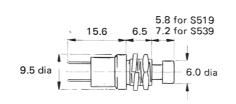
NOTE: Back nut must always be used on switches with metal necks.

C 936 KR and C 938 KR				switches with metal necks.			
	Tanada		indard Button	Round Shrouded Push	Rectangular Shrouded Push		but less d Shroud
	Terminals	Metal Neck	Nylon Neck	Metal Neck	Metal Neck	Metal Neck	Nylon Neck
936	6-3 Tab.	C 936	C 936/D1	C 936 K,KM.	C 936 KR	C 936 L	C 936L/D1
Push for on	5 BA Screw	S 936	S 936/D1			S 936 L	S 936L/D1
$=$ $\frac{1}{5}$ $\frac{1}{5}$	Solder Tags	Т 936	T 936/D1			T 936 L	T 936L/D1
938	6-3 Tab.	C 938	C 938/D1	C 938 K,KM.	C 938 KR	C 938 L	C 938L/D1
Push for off	5 BA Screw	S 938	S 938/D1	S 938 K,KM.	S 938 KR	S 938 L	S 938L/D1
	Solder Tags	Т 938	T 938/D1	T 938 K,KM.	T 938 KR	T 938 L	T 938L/D1

S519

SPRING RETURN PUSH BUTTON SWITCHES

0.5A. 50V ~



Max. plunger movement

S519 Push for ON N/O 감누 1.5 S539 Push for OFF N/C 2.5 3

S519 and S539

Threaded metal neck Panel hole: 7.1 dia.

Solder tags

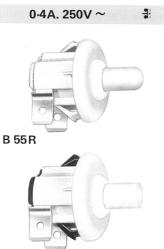
Press buttons: Black, Red, White or

Green on S519 Black or Red on S539

Hex. nut and spring washer fixing

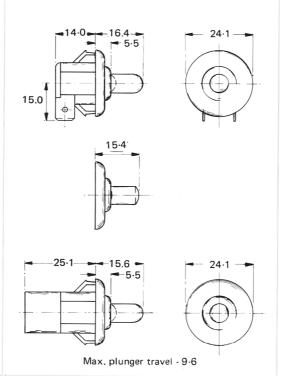
Slow make and break action

 $\begin{array}{l} \text{Max. panel thickness with spring} \\ \text{washer} - 2.5 \end{array}$









55 and 56

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

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

Nylon plunger with overtravel.

6.3 Tab terminals.

Operating pressure: 280gr. approx.

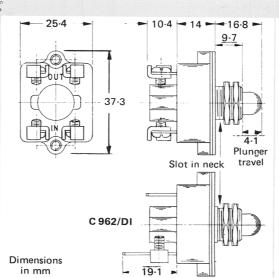
Panel cut-out: 19.2 dia. hole.

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

Details of approved switches are listed in separate publication No. 200.

Please state whether refrigerator or oven light application.





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

960

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 19. 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.

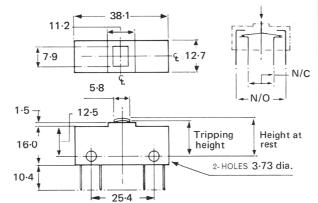
As C 960/DI, with duplex C 962/DI incoming terminals for screw and tab connection.

Rating with screw terminals reduced to 6A 250V

SPRING RETURN (MICRO-SNAP ACTION) PRESS BUTTON SWITCHES

10A. 250V~





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

6.3mm Tab Terminals.

Height at rest Tripping point height Movement differential Available overtravel

15-6mm 14.5mm 5.0mm Plunger flush

with case.

Operating force: C 290 680 gr. approx.



N 290/P1



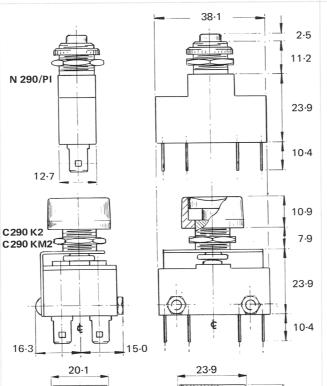
C 290/K2 C 290/KM2

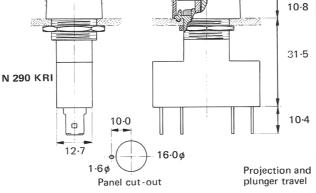


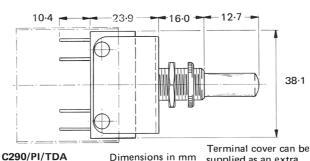
N 290/KR1



C290/PI/TDA







Dimensions in mm supplied as an extra. Fixing necks screwed:

11.79 11.68 mm dia. x 32 TPI Whit.

Panel hole: 12.7 dia. except /KR series.

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

Max. Panel thickness: 5.6mm.

6.3 Tab Terminals.

Press button colours: Black, Red, Green,

White or Blue.

Fixing rings on 'P' series chrome finish.

Shrouds on 'K'series anodised aluminium.

Shrouds on 'KM' series. Moulded.

Shrouds on 'KR' series, moulded natural colour or finished matt or bright chrome.

Splashproof covers for 'P' series on page

Single Pole Switches

All Nylon

Standard Press Button N 290/P1 Circular Press Button N 290/K1 N 290/KM1 (Shrouded) N 290/KR1 Rectangular Press Button (Shrouded)

As /K1 less Button & Shroud N 290/L1

Double Pole Switches

Metal Bush and mounting bracket

C 290/P2 Standard Press Button

C 290/K2 Circular Press Button C 290/KM2 (Shrouded)

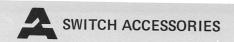
C 290/KR2 Rectangular Press Button (Shrouded)

C 290/L2 As /K2 less Button & Shroud

Single Pole Switches

Metal Bush and mounting bracket

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



These accessories are suitable for switches

having $^{11.79}_{11.68}$ mm dia. x 32 T.P.I. Whit. screwed necks.

HEXAGON NUTS

T 5

chrome extra

M 506 Nickel finish

Nylon





KNURLED RING NUT

T 4

Nickel finish standard, chrome extra





SLOTTED RING NUT

T 92

T 185

Knurled Plain

Edge Edge Chrome finish is standard



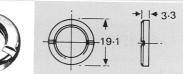


LARGE RING NUTS

T 18 Chrome

M 472 Nylon finish (non-(slotted)

slotted)



NYLON RING NUT M 279 White or Black

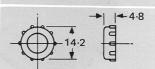




NYLON RING NUT M 51

White or Black Cannot be used with switches fitted with lever Nos. 2, 5, 7, 8, 9, M or P

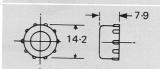




DEEP NYLON RING NUT M 10

White or Black Cannot be used with switches fitted with lever Nos. 2, 5, 7, 8, 9, M or P

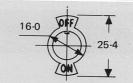




INDICATOR PLATE P 23

Alternative engraving is OFF at bottom or LOW-HIGH When ordering please state finish

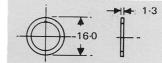




FIBRE WASHER P 116

required either nickel or chrome

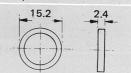




MOULDED SPACER M 535

Low cost spacer which can be supplied to replace T 5 back nut on switches with nylon necks





LARGE CAP NUT T262

Chrome finish is standard





★3.3

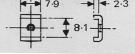
TERMINAL CLAMPS P 174

3.56mm dia plain hole

P 36 5 BA. tapped hole

TERMINAL CLAMP P 173 4 BA. tapped hole







FLEXIBLE MOULDED

SPLASH-PROOF COVERS



Suitable for levers:-No. 1 (600 series). Page 11.



Suitable for levers:-Nos. 0 and 4 (600 series). Page 11 Letter U (1800 series). Page 12.



M 323

For use with press button switches Cat. Nos. 290 P1 and P2 illustrated on page 18.



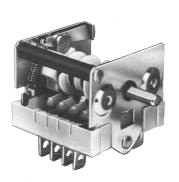
For use with press button switches Cat. Nos. 936 and 938 illustrated on page 16.



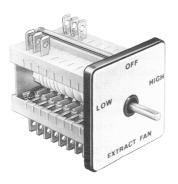
M539

Suitable for lever switches illustrated on pages 11, 12, and

All supplied with captive fixing nuts.



Single 4-way frame



Double 8-way frame with escutcheon

16A 250V AC~ 1.8A 250V Resistive

Types available:-

4-pairs of contacts Single 4-way frame. 8-pairs of contacts Double 4-way frame. 8-pairs of contacts Single 8-way frame. Double 8-way frame. 16-pairs of contacts Indexing at 30° , 36° , 45° , 60° , 72° or 90° throughout 360° , to requirements.

Front of panel escutcheon, moulded in various colours, supplied at extra cost. Centre removable insert suitable for engraving, or may be in transparent material for rear insertion of engraved plates.

For full details of these switches, see separate publication No. 35.

PACKET SWITCHES

'D' SERIES



Control Knob Operated



16A 250V AC~

Types: Any number of ganged packets Indexing at 90°, 60° or 45° either fully or semi-rotational to requirements.

Up to 2-independent single pole changeover contacts per packet.

Size: 50.8 x 57.1

Front of panel escutcheon supplied as an extra. Details at 'E' series.

For full details of these switches, see separate publication No. 35.

CONTROL KNOBS

'E' and 'D' SERIES SWITCHES





A 1054 Clear Plastic Surround



A 1062 Clear Plastic Surround



A 1056 Clear Plastic Surround



CM 97



CM 120



CM 99



A 1042

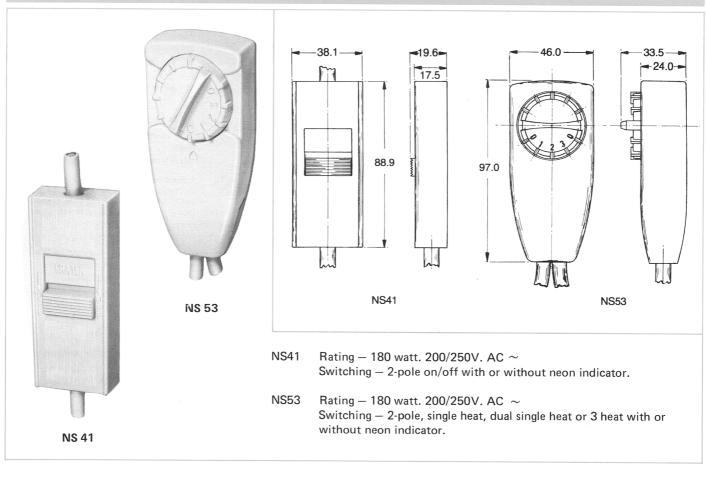


CM 63

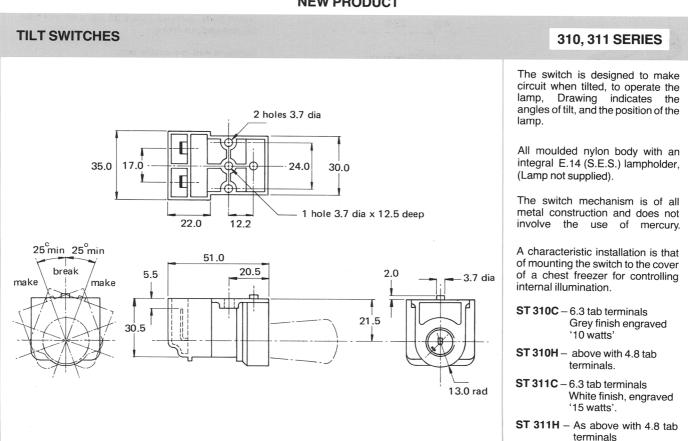


Further details of these knobs with method of fixing, i.e. either cross screw, or spring clip, in separate publication No. 35



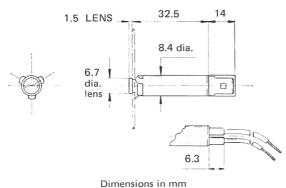


NEW PRODUCT





5.8 mm dia. panel hole



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.

For LV version add /LV to Cat. No.

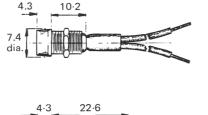
Indicators are assembled into panel by inserting lens into front of panel and fixing body to the lens at rear of panel by a push and turn movement.

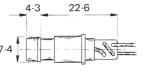
6.3 mm dia. panel hole



SL 45

SL 245





Dirnensions in mm

SL 41. Metal body, screwed nut fixing. SL 41/C. As above with extra front bezel. Metal body screwed 6.27/6.22 dia. x 40 TP

Metal body screwed 6.27/6.22 dia. x 40 TPI Whit. Body and bezel chromium finish.

Max. panel thickness 6.3mm.

For LV version see SL40 on page 36.

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.

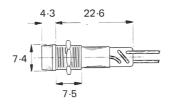
Both fitted with 200mm long PVC flexible leads.

Coloured non-removable lanses.

For LV version see SL44 on page 36.

7.1mm dia. panel hole





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

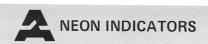
Coloured non-removable lens.

Max. panel thickness 6.3mm.

SL 245 - 200mm long PVC flexible leads.

SL 245/C — As above with chrome front bezel.

For LV version see SL244 on page 36.



Voltage range:

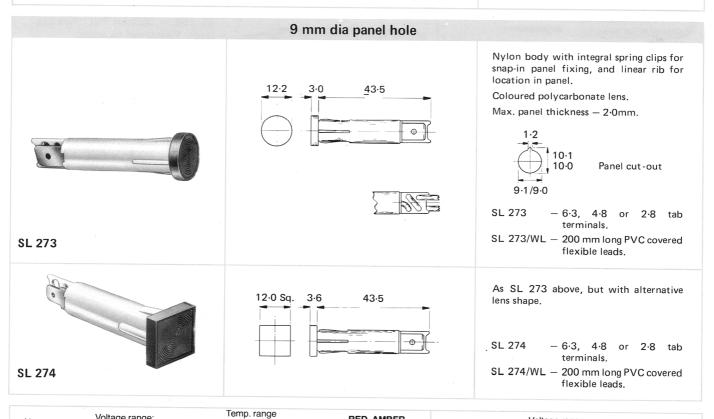
Below 100V, (Specify)

100/130V, 200/250V

Neon

Tubes

8 mm dia panel hole Nylon body with integral spring clips for snap-in panel fixing. 3.9 32.6 Coloured polycarbonate non-removable -12·6 **-**SL 295/WL - 200 mm long PVC covered 9.0 flexible leads. 1 SL 295/WL/C - As above with chromebezel Panel thickness 0.8mm min. 1.6 max. **SL 295/WL** 33.3 10.9 Chrome finish metal body for use with SL 232 or SL 233 shown below. Polycarbonate lens. Threaded 7.9/7.8 dia. x 40 TPI. Whit. 9.5 Panel thickness - 8.0 dia. Quote: SL297/SL232 or SL297/SL233 or SL 297/232 SL297. Body Only. 5.6 19.1 9.0 Transparent nylon body. 200mm long PVC covered flexible leads. _ø 8.00 Other lengths or heatproof to order. 7.1 7.85 6.68 SL 232 6.55 35.0 Neon tube, resistor and flexible lead assembly, protected by "shrunk on" transparent sleeving. For use with own coloured lens moulding. **SL 233**



T85°C is standard

T125°C available

on request

RED, AMBER

CLEAR or

GREEN only

Filament

Lamps

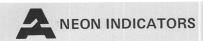
Voltage range:

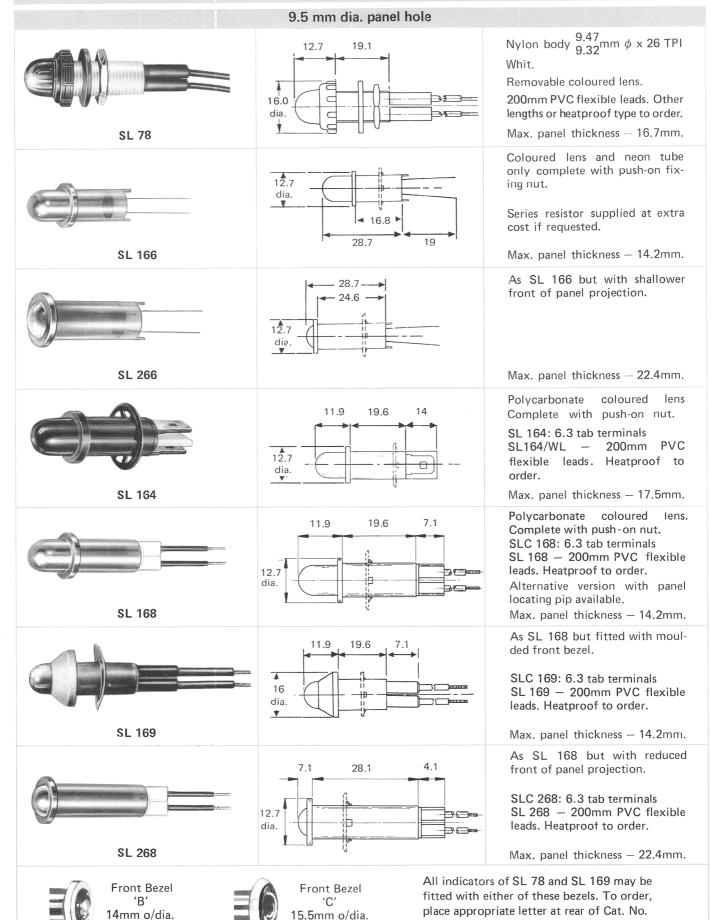
6V, 12V or 24V

Add LV to Cat. No.

ALL

COLOURS





Neon Tubes Voltage range: Below 100V, (Specify) 100/130V, 200/250V

Chrome finish

Temp. range T85°C is standard T125°C available

on request

RED, AMBER CLEAR or GREEN only

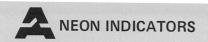
Filament Lamps

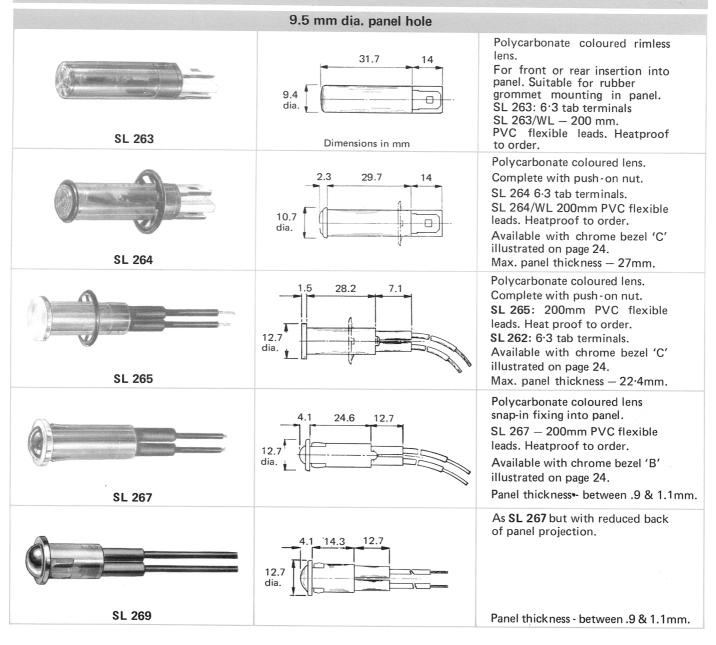
For example - SL 168/B.

Voltage range: 6V, 12V or 24V Add LV to Cat. No.

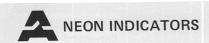
ALL COLOURS

Chrome finish

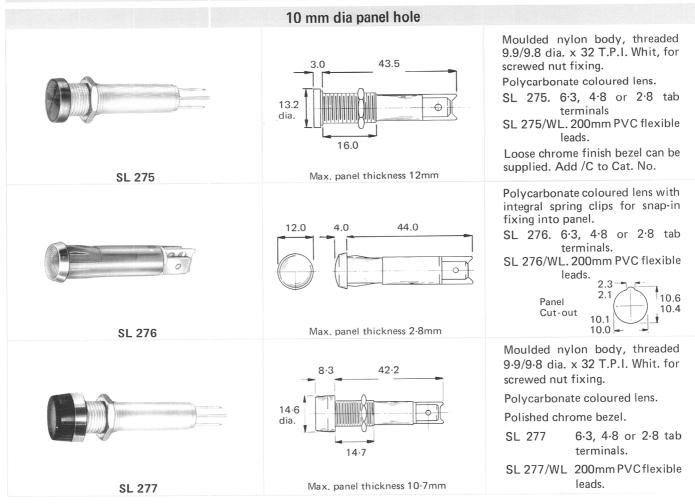


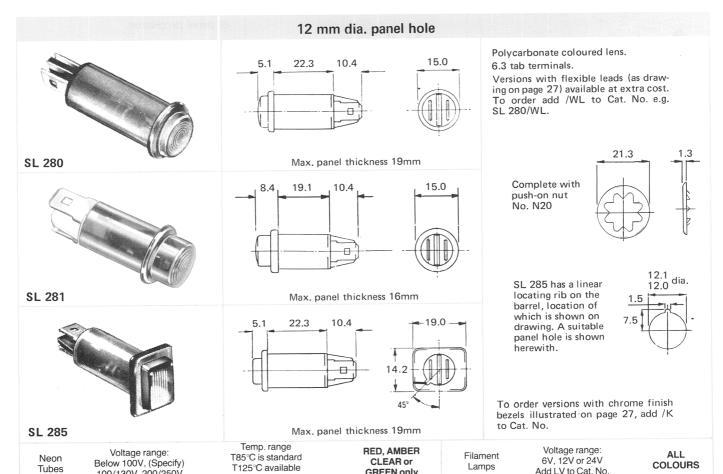






100/130V, 200/250V

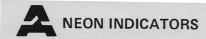




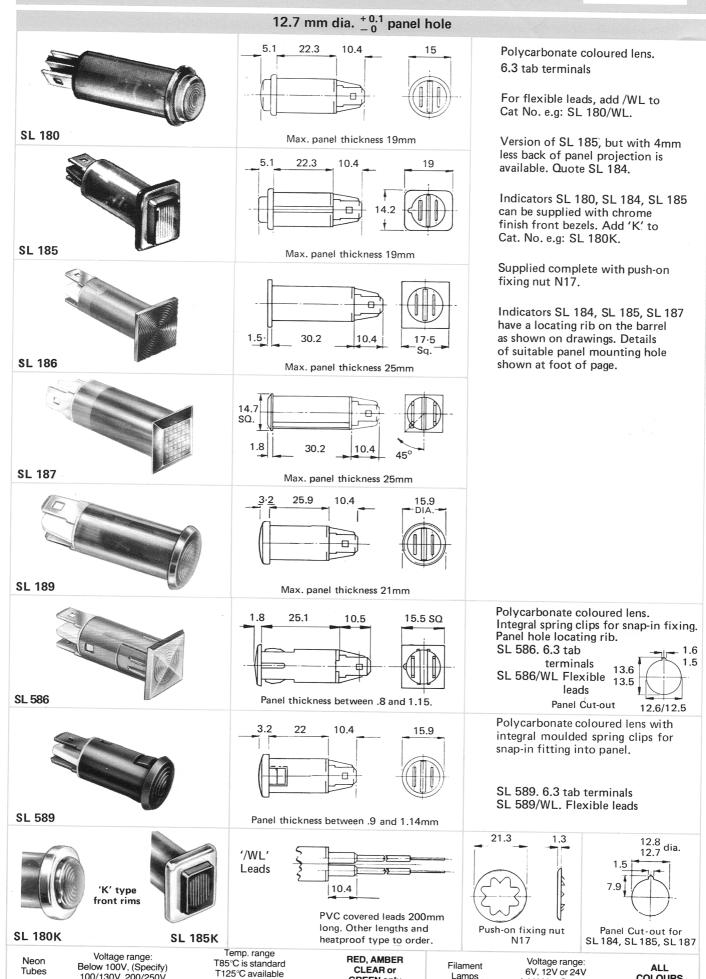
on request

GREEN only

Add LV to Cat. No.



100/130V, 200/250V



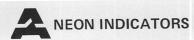
on request

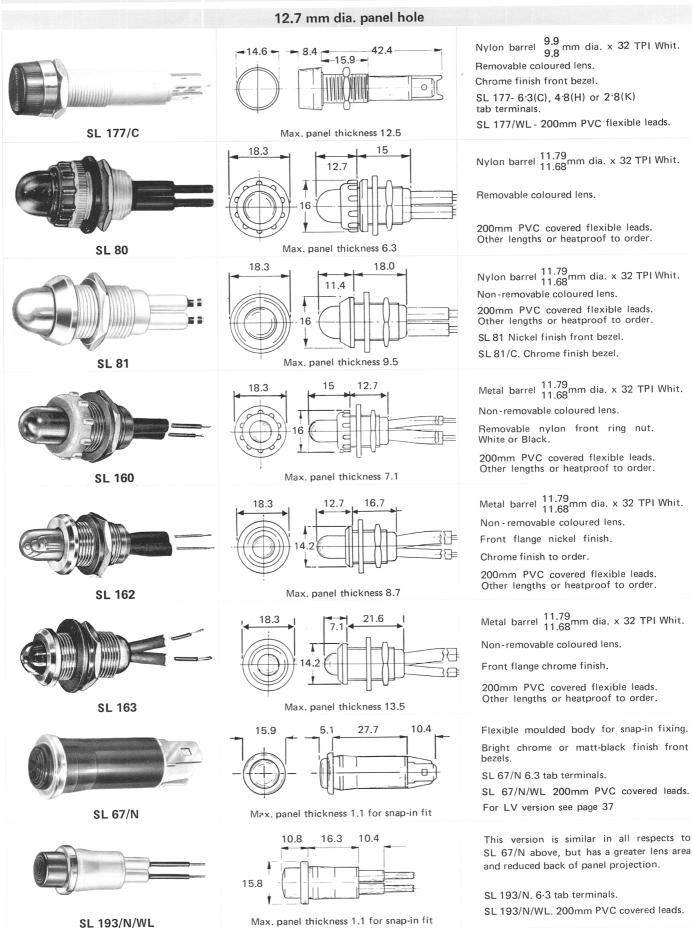
GREEN only

Lamps

Add LV to Cat. No.

COLOURS





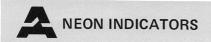
Neon Tubes

Voltage range: Below 100V, (Specify) 100/130V, 200/250V Temp. range T85°C is standard T125°C available on request

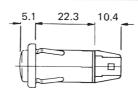
RED, AMBER CLEAR or GREEN only

Filament Lamps Voltage range: 6V, 12V or 24V

ALL COLOURS Neon indicators with metal bodies should be adequately earthed.



SL 180B

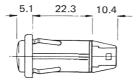


16.3

13.5 mm dia. panel hole



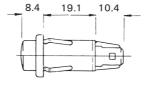
SL 180BR







SL 181B





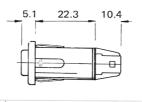
20.6

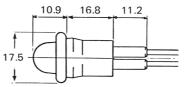
16



SL 185B

SL 190/L7





Max. panel thickness 2.0 for snap-in fit

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.

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 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:



A push-on nut, Part No. N20 can be supplied if requested at extra cost.

Overall sizes are shown on page 26.

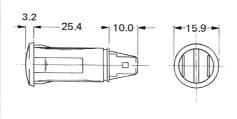
Flexible moulded body for snap-in fixing. Chrome finish front bezel. Coloured lens. 200mm PVC covered leads.

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

14.0 mm dia. panel hole



SL 579



Max. panel thickness 2.5 for snap-in fit

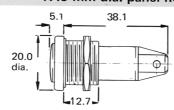
Polycarbonate coloured lens with integral moulded clips for snap-in fixing.

SL 579C - 6.3 Tab terminals SL 579/WL - 200mm. PVC covered flexible leads.

17.5 mm dia. panel hole



SL 69/N



Moulded threaded body for nut fixing. Scrd. 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.

Neon Tubes

Voltage range: Below 100V, (Specify) 100/130V, 200/250V

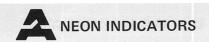
Temp. range T85°C is standard T125°C available on request

RED. AMBER **CLEAR or** GREEN only

Filament Lamps

Voltage range: 6V, 12V or 24V Add LV to Cat. No.

COLOURS



SL 88N/L90



SL 90N/L90



SL 391/C/L90



SL 395/C/L90

19 mm dia. panel hole

THREAD:—
18.92mm DIA. x 26 TPI WHIT.

11.2

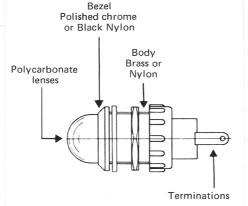
22.9

15.0

(Excepting SL 385 & SL 395)

Max. panel thickness 6.3mm

Solder Tags are standard



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) N	NEON TUBE	E
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 green fluorescent tube specify NT 147G.

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

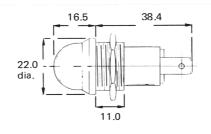
Supplied complete with NT 14 neon tube and separate resistor, built-in to the assy.

To order green fluorescent tube specify NT 29.

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 green fluorescent tube specify NT 151G.

Terminations:- /C, /S, or solder tags.

For LV version see page 38.



L41



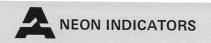
Either of these two lenses can be supplied

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

Neon Tubes Voltage range: Below 100V, (Specify) 100/130V, 200/250V Temp. range T85°C is standard T125°C available on request

RED, AMBER, CLEAR or GREEN only.

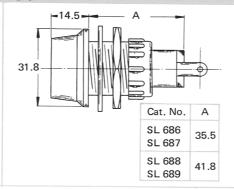
Neon indicators with metal bodies should be adequately earthed.



22.5 mm dia. panel hole



SL 687



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

Chrome finish metal body only.

Terminations available as on page 30.

For LV versions see page 39.

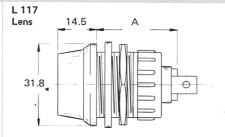
25.4 mm dia. panel hole

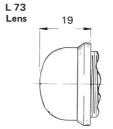


SL 693/C/L117



SL 691/L73





Çat. No.	А
SL 690 SL 691	30.2
SL 692 SL 693	41.8

22.5 Series

SL 687 MES (E10) Neon tube. SL 689 MBC (BA9s) Neon tube. Max Panel thickness — 11.1

> 25.4 Series MES (E10) Neo

SL 691 MES (E10) Neon tube. SL 693 MBC (BA9s) Neon tube. Max. panel thickness — 8.7

30.5 Series

SL 695 MES (E10) Neon tube. SL 697 MBC (BA9s) Neon tube. Max. panel thickness – 7.1

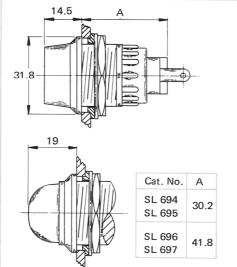
30.5 mm dia. panel hole



SL 697/L117



SL 695/L73





Either of the two lenses may be supplied



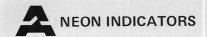
58.4 long x 17.8 dia

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

Neon Tubes Voltage range: Below 100V, (Specify) 100/130V, 200/250V Temp. range T85°C is standard T125°C available on request

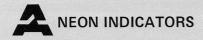
RED, AMBER, CLEAR or GREEN only.

Neon indicators with metal bodies should be adequately earthed.

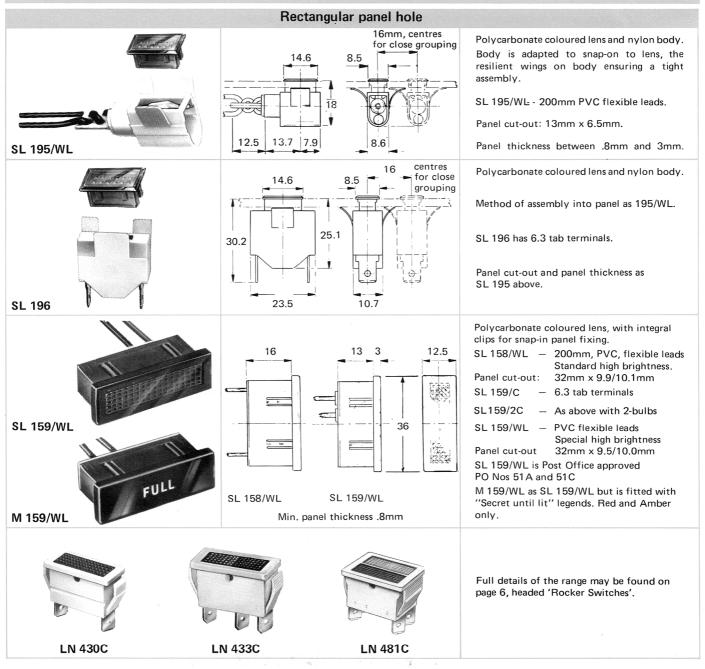


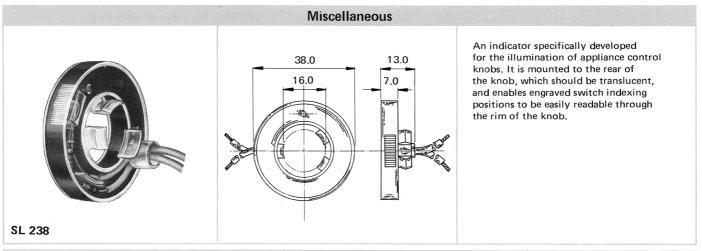
RECTANGULAR SERIES

Rectangular panel hole White moulded body with polished chrome 36.6 10.9 4.1 Polycarbonate coloured lens. 6.3mm tab terminals. 22 4 || 0 Metal spring clips for snap-in panel fixing. Panel cut-out: 28.7mm $\pm .13 \times 16.7$ mm $\pm .13$ Panel thickness between .8mm and 1.6mm. **SL 52** White moulded body with polished chrome 10.4 6.9 9.6 3.3 surround, and polycarbonate coloured lens. 7.9 Metal spring clips for snap-in fixing. Panel cut-out: 29.4mm \pm .13 x 8.3mm \pm .13. 31 25.4 SL 57 and 57S 200mm PVC covered leads. SL 58 and 58S 6.3 tab terminals. Panel thickness between .8mm and 1.5mm. SL58 SL58S **SL 58** Dual lens version of SL 57 and SL 58. 10.4 6.9 9.6 23.9 3.3 Panel cut-out: 29.4mm ± .13 x 20.8mm ± .13 SL 257 has 200mm PVC covered leads. 31.7 SL 258 has 6.3 tab terminals. Panel thickness between .8mm and 1.5mm. **SL 257** Polycarbonate coloured lens with integral moulded clips for snap-in fixing. 25.4 Flashing or steady signals. 6.3 tab terminals. **SL 172/C SL 174/C** Panel cut-out - 21.6 $^{+0.2}_{-0}$ x 10.0 $^{+0.2}_{-0}$ 9.1 4.0 12.7 30.5 SL 171/C Steady signal. 3 terminals SL 172/C Flashing signal 2 terminals. SL 173/C Flashing or steady signals 25.4 3 terminals. SL 174/C Steady signal 2 terminals. SL 171/C SL 173/C Panel thickness - 2.0 max. 16.5 2.0 13.1 Polycarbonate coloured lens with integral moulded clips for snap-in fixing. 200mm long flexible PVC covered leads. Other lengths and heatproof to order. 23.0 Panel cut-out: 21.0 mm min. x 11.0 mm min. Panel thickness between .9mm and 1.14mm. **SL 175** 14.6 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. 27.3 Other lengths and heatproof to order. Panel thickness between .9mm and 1.14mm. **SL 176**



RECTANGULAR SERIES





Neon Tubes Voltage range: Below 100V, (Specify) 100/130V, 200/250V Temp. range T85°C is standard T125°C available on request

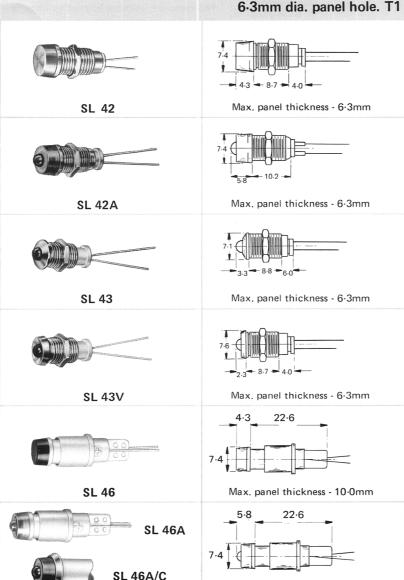
RED, AMBER CLEAR or GREEN only

Filament Lamps Voltage range: 6V, 12V or 24V Add LV to Cat. No.

ALL COLOURS



LIGHT EMITTING DIODE LAMPS 6.3mm dia. panel hole. T1 L.E.D.



Alternative bodies, either chrome finish brass or nylon. Metal bodies threaded 6.27/ 6.22mm 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.

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

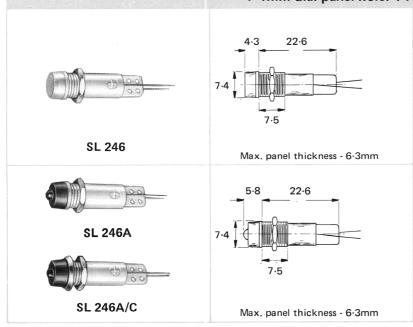
Cat. No. SL 46A/C As SL 46A, but fitted

with loose chrome bezel.

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

7.1mm dia. panel hole. T1 L.E.D.

Max. panel thickness - 10.0mm



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.

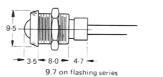
LIGHT EMITTING DIODE LAMPS 8.0mm dia. panel hole. T1% L.E.D.



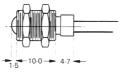
SL 48L SL 48H



SL 48PL SL 48PH



9.7 on flashing series Max. panel thickness - 5.5mm



Max. panel thickness - 3.8mm

Note: 8.0 series only are available with flashing signal suitable for connection to 5.0V supply without resistor.

Please quote **LP** series

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.

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 1% size LED.

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

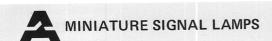
T1 L.E.D. lamps used on 6·3 and 7·1mm dia. series

Arcolectric Reference	Colour	Typical Forward Voltage	Maximum Forward Voltage	Continuous Forward Current
LED 10	RED	1·7V	2·0V	40-50 mA
LED 14	YELLOW	2·4V	3·0V	35-40 mA
LED 17	GREEN	2·4V	3·OV	35-40 mA

T1% L.E.D. lamps used on 8.0mm dia. series

Arcolectric Reference	Colour	Typical Forward Voltage	Maximum Forward Voltage	Continuous Forward Current
LED 12	RED	1·7V	2·2V	100 mA
LED 13	RED	2·0V	3·0V	35mA
LED 15	YELLOW	2·4V	3·0V	35-60 mA
LED 16	GREEN	2·4V	3·0V	35-60 mA

LED lamps are available for the above stated voltages. Our Technical Dept however, will supply, on request, the size of resistors required to enable the lamps to be connected to any specified voltage. We do not stock and therefore cannot supply resistors.



LOW VOLTAGE FILAMENT LAMPS 6.3mm dia. panel hole

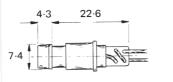


SL 40

Max. panel thickness - 6.3mm



SL 44



Max. panel thickness - 10.0mm

Alternative bodies, either chrome finish brass or nylon. Metal bodies threaded 6.27/ 6.22mm 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.

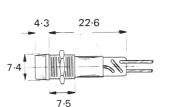
SL 44 Nylon body.

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

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.

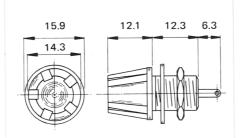
SIGNAL LAMPHOLDERS

9.5 SERIES

SL 60/L111



L30



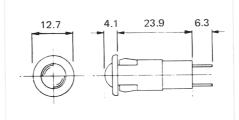
9.5 mm dia. panel hole Dimensions in mm

Max. panel thickness 8.6mm

SL 61



SL 61B/WL



Panel thickness between .9 and 1.14mm

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

Solder tag connections.

SL 60 LED. Version fitted with T1% light emitting diode.

LES (E5/8) Bulb

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

Rear nylon base assembly removable for bulb replacement.

Moulded bezel. Solder tags. SL 61 Chrome bezel. Solder tags; **SL 61B** Moulded bezel. 200mm PVC SL 61/WL

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.



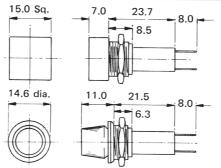


Hinged lens

SL 116



12 mm dia. panel hole



T1%(6mm), All glass, wedge shape 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. 2-8 tab terminals.

SL115. Hinged lens SL116. Removable lens SL116/C With chrome bezel

With antirotational pip

Panel Cut-out 13.0/12.9

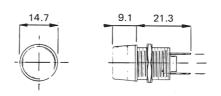
12.7 mm dia. panel hole

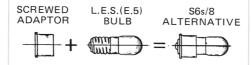


SL 62 SL 63



SL 62M SL 63M





Max. panel thickness 9.6mm

T1% (6mm), S6s/8 cap midget 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.

Chrome finish bezel. Removable lens/bezel, Bezel is 'live'

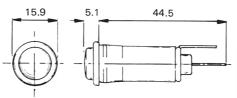
SL 62M As above less bezel. Removable lens.

LES (E5/8) Bulb

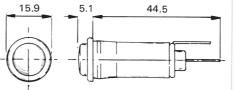
SL 63 As SL 62, but complete with loose adaptor (see adjacent drawing).

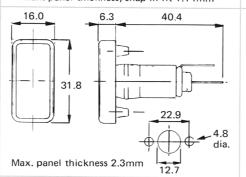
SL 63M As SL 62M, but complete with loose adaptor (see adjacent drawing).

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.

BA7s Bulb



Flexible nylon body for snap-in fixing.

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

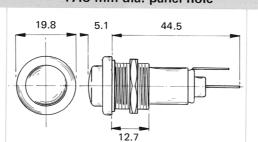
6.3 tab terminals. Black bezel.

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

SL 71/C/Legend

SL 69/C

17.5 mm dia. panel hole



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

SIGNAL LAMPHOLDERS

SL 88/L90



SL 90/C/L 90



SL 390/C/L 90



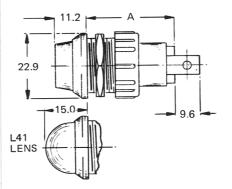
SL 392/C/L 90



SL 396/L 90

19 mm dia. panel hole

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



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

Polished chrome or Black Nylon

Body Brass or Nylon

Polycarbonate lenses

Bezel

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

Terminations

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				

-			
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.

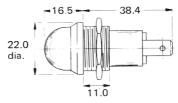
Symbol "RO" means 11mm round bulbs. Symbol "TU" means 10mm tubular bulbs.

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	RO, TU 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.

Terminations:- /C, /S or solder tags.

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

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

22.5, 25.4, 30.5 mm dia. panel holes



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.

SL 686 MES (E10) 22.5 dia. SL 688 MCC (BA9s) panel hole Max. panel thickness - 11.1

SL 690 MES (E10) SL 692 MCC (BA9s) Max. panel thickness - 8.7

25.4 dia. panel hole

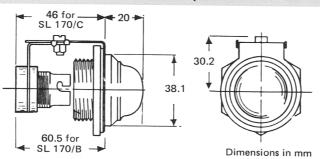
SL 694 MES (E10) SL 696 MCC (BA9s) 30.5 dia.

Max. panel thickness - 7.1

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. \times 16 TPI Whit.

Max. panel thickness 9.6mm.

54.1 mm dia. panel hole



SL 100 (L39 Lens)

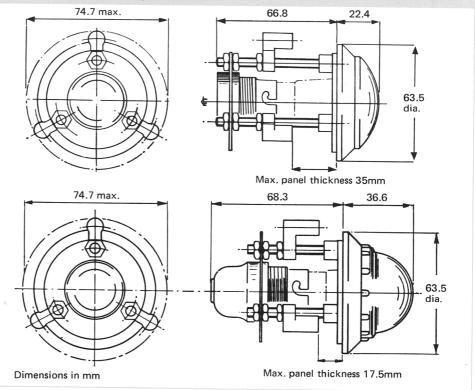


SL 102 (L44 Lens)



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, 22.5 mm, 25.4 mm and 30.5 mm. dia. panel holes



TL79/L/L90



TL80/L117 TL81/L141 TL82/L117

31.8 dia.

10.4

TL.79

TL.80

TL.80

TL.81

TL.82

TL.82

Mounting

32.5 dia.

'A' DIMENSION

70.

70.

70.

70.

70.

80.

81.

85.4

		AL	TIMENSIO	111		
	79	79 L	79M	80 80M	81	82 82M
TL Series	67.6	72.1	79.5	71.4	72.5	71.4
TF Series	73.9	78.4	85.8	77.7	78.8	77.7



L41



L73

Alternative Lenses 79, 80 and 82 Series

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.

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

Transformer lamps now available with flashing signal. Quote TF series.



T221 Screwed Adaptor

A complete TL80 unit is available, using the screwed adaptor shown, a special bezel, and a TL79 transformer unit. To order, quote:--TL80A. MES bulb.
TL80A/M. MBC bulb.

Cat. No.	Panel Hole	Max. Panel Thickness	Type of Bulb 6.5 Volt	Terminals	Lens Type and Cat. No.	Weight approx
T.L.79	19.00 mm ϕ	5.6 mm	11 mm MES Round	5BA screw & Clamp	L41 only	127gr
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 only	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
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, sir	nilar to T.L.80	is fitted with glass I	ens. Overall sizes	supplied on requ	est.
T.L.81	22.5 mm ø	12.4 mm	11mm MES Round	5 BA Screw & Clamp	L141 only	
T.L.81/C	22.5 mm ø	12.4 mm	11mm MES Round	6.3 Snap-on	L141 only	
T.L.82	30.5 mm ø	8.1 mm	11 mm MES Round	5 BA Screw & Clamp	L73 or L117	170 gr
T.L.82/C	30.5 mm ø	8.1 mm	11 mm MES Round	6.3 Snap-on	L73 or L117	170 gr
T.L.82/M	30.5 mm ø	8.1 mm	11 mm MBC Round	5 BA Screw & Clamp	L73 only	170 gr

Twin LES (E5/8) bulb units also available. Add 2' to Cat. No. Example:- TL792





P.V.C. Insulating

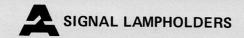
terminal cover

Third terminal for earthing secondary winding of transformer

Legend Plates. Quote: P.387 for T.L.79 P.386 for T.L.80 P.551 for T.L.81

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 LAMPHOLDERS

Signal Lampholder Cat.	Bulb Type	Max. bulb diameter	Max. bulb length	Maximum wattage bulb for continuous running at 20-25°C ambient	Bulb Accessibility from front	Bulb Accessibility from rear	Remarks
No.		mm.	mm.	Polycarbonate lens	of panel	of panel	
SL 60	LES (E5/8)	7	16	1.5	Yes	No	
SL 61	LES (E5/8)	7	16	1.5	No	Yes	
SL 62	T1¾ 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		Yes	
SL 89	MES (E10/13)	12	31	3		Yes	
SL 90	MES (E10/13)	12	35	3	See chart	Yes	
SL90/SB	MES (E10/13)	12	31	3	page 38	Yes	
SL 93	MCC (BA9s)	12	31	3	[®] See chart	Yes	
SL 115 SL 116	TI ¾ mm All glass Wedge shape.	6	20	1	Yes	No	
SL 99	MES (E10/13)	12	31	3	page 38	Yes	
SL 138 SL 139	MCC (BA9s)	12	30	3	Yes	No	**
SL 390,	MES (E10/13)	12	30	3	See chart	Yes	
SL 382 SL 392	MCC (BA9s)	12	30	3	page 38	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

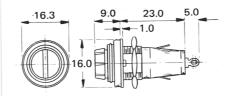
When ordering as spares, please state colour. Available in TRANSPARENT or TRANSLUCENT material. Polycarbonate suitable for temperatures up to 130°C.

Cat. No.	Description	Thread Details	Effective Length of Threac
L 2	Polycarbonate lens as supplied on SL 82	22.15/22.05mm dia. x 16 T.P.I. WHIT (EXTERNAL)	4.1
L 3	Polycarbonate lens as supplied on SL 80. Transparent RED, AMBER and CLEAR only.	11.99/11.86mm 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.	9.68/9.58mm dia. x 26 T.P.I. WHIT (INTERNAL)	
L 30	Polycarbonate lens as supplied on SL 60	11.99/11.86mm dia. x 32 T.P.I. WHIT (INTERNAL)	
L 39	Polycarbonate lens as supplied on SL 100	45.41/45.28mm dia. x 12 T.P.I. WHIT (EXTERNAL)	5.8
L 40	Polycarbonate lens as supplied on SL 170	25.20/25.07mm dia. x 16 T.P.I. WHIT (EXTERNAL)	7.1
L 41	Polycarbonate lens as supplied on SL 90, SL 88 etc.	15.62/15.49mm dia. x 26 T.P.I. WHIT (EXTERNAL)	4.3
L 44	Polycarbonate lens as supplied on SL 102	45.41/45.28mm dia. x 12 T.P.I. WHIT (EXTERNAL)	5.6
L 73	Polycarbonate lens as supplied on TL 80	22.15/22.05mm dia. x 26 T.P.I. WHIT (EXTERNAL)	6.3
L 90	Polycarbonate lens as supplied on SL 390	15.62/15.49mm dia. x 26 T.P.I. WHIT (EXTERNAL)	4.8
L 99	Polycarbonate lens as supplied on SL 77	12.57/12.50mm dia. x 32 T.P.I. WHIT (EXTERNAL)	1.8
L 111	Polycarbonate lens as supplied on SL 60	11.99/11.86mm dia. x 32 T.P.I. WHIT (INTERNAL)	1.0
L 117	Polycarbonate lens as supplied on TL 80	22.15/22.05mm dia. x 26 T.P.I. WHIT (EXTERNAL)	9.1
L 123	Polycarbonate lens as supplied on SL 100	45.41/45.28mm dia. x 12 T.P.I. WHIT (EXTERNAL)	7.1
L 141	Polycarbonate lens as supplied on TL 81	22.35/22.28mm dia. x 26 T.P.I. WHIT (INTERNAL)	7.1

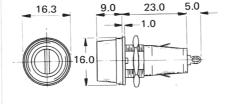
PANEL MOUNTING



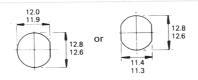
FH 332



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.

FH 333 and FH 337 are CSA and Semko approved.

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. \times 5/8" Fuse. Panel hole 'B'.

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

EXTRA

Moulded PVC insulating terminal cover 30mm long x 4.75mm dia. outlet. Part No. M520.

IN-LINE FUSE HOLDER



F33. Overall length 36.5mm.

F35. Overall length 50.8mm.

F33, F35 SERIES

Moulded in natural colour nylon. Supplied without fuses or leads. Fuses 5 amp maximum.

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

For 31.7mm long x 6.3mm dia. fuses

CONTROL KNOBS

Style H45

Style H15

F33



H15/20 20¢ H15/25 25ø x 16 deep

Style H35



H35/22.7 22.7ø H35/27.5 27.5ø x 12 deep



H45/19 19d H45/21 21ø H45/28 28¢ x 16 deep

Style H50



H50/18.5 18.5ø H50/22.7 22.7ø H50/27.5 27.5¢ x 12 deep

Style H60



H60/18.5 18.5ø H60/22.7 22.7¢ x 12 deep

All Knobs to suit 6.0 dia spindle, (6.3 dia on request), grub screw fixing, and have position indicating line.



SIGNAL LIGHT WINDOWS AND MISCELLANEOUS COMPONENTS



Moulded polycarbonate in all colours.

14.6mm long x 8.5mm wide.

Snap-in fit in panel cut-out:- $13.1/13.0 \times 7.1/7.0$ mm.

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 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





All moulded Chrome finish Moulded polycarbonate lenses.

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



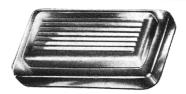
L 14

Moulded snap-in lens. All colours.

19mm dia. x 12.7mm deeps.

Panel cut-out 16.1/16.0mm dia.

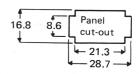
Snap-in fit in panel 3.0mm max.



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

colours.



Moulded lens, all colours, chrome

46.0mm dia., 12.7mm deep.

Panel cut-out 38.1mm dia.

Max. panel thickness 9.6mm.



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.

APPLIANCE SOCKET and PLUG

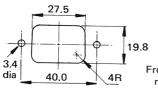


2-pin and earthing contact for class 1 appliances to standard CEE22

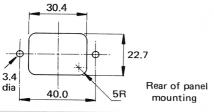
6A.250V



NC 174 48.0 overall x 22.5 wide x 20.0 deep.



Front of panel mounting



81/0789/50 84.9 overall x 29.9 wide x 20.6 deep.

NC 174 - Specification 'COLD' Working Temp. 65°C 81/0789/50 - Specification 'HOT' Working Temp. 120°C max.

ARCHITECTURAL LAMPHOLDER



L94 1.95 Black White

curved or straight tubes

38.1mm. long 25.4mm. wide 33.1mm. high

Single 2BA fixing

No. 2 Building East Molesey

Production

Automated Assembly



Tool Making

For more than forty years tool making has been the key to the company's success. Many of our Senior Toolmakers have served with us since their apprenticeship. Today we continue to have a steady flow of apprentices undergoing training.





Tool Room



Arthur Arnold and Max Kornreich