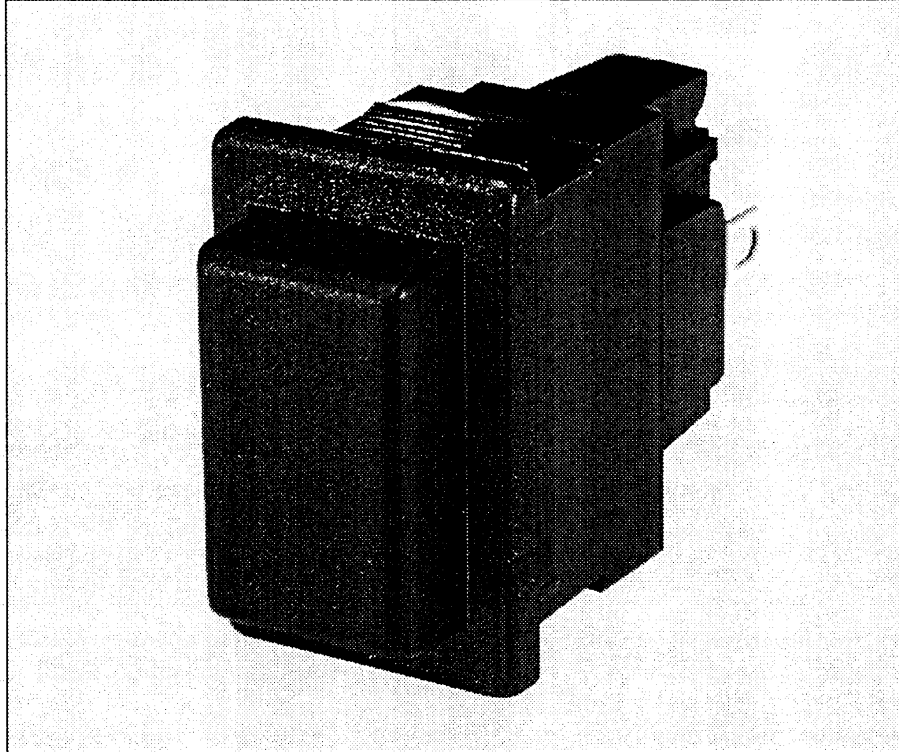



433878-70 921

Push Button Switches



Push Button Switches - 1100 Series
0.125A 125Vac, 0.125A 45Vdc 
0.5A 250Vac

A new range of push button switches offering latching or momentary single pole On/Off action and fitting an industry standard cut-out of 19 x 13mm.

Gold plated contacts make them ideally suited for low power switching.

Arcoelectric

Technical Information

CATALOGUE NUMBER	0055,0056	1100	1300,1350 & 1353	1584 -1589	1500,1550 & 1700
MATERIALS					
Body and actuator (opaque)	Nylon 6.6	Nylon 6.6	Nylon 6.6	Nylon 6.6	Nylon 6.6
Actuator (transparent)	-	-	Polycarbonate	Polycarbonate	-
Current carrying parts	Copper Alloy	Copper Alloy	Copper Alloy	Copper Alloy	Copper Alloy
Contact points	Silver Plated	Gold Plated	Silver Plated	Silver Plated	Silver Plated
	-	-	Silver Alloy	Silver Alloy	Silver Alloy
PROPERTIES					
Electrical					
Electrical Life (Operations)	>50K	>50K	>50K ^s	>10K	>10K
Contact Resistance in new condition (mΩ)	<10	-	<10	<10	<10
Insulation Resistance (MΩ)	>20	>20	>20	>20	>20
Dielectric Strength: (kV)					
across open contacts	>1	>1	>1	>1	>1
between poles	>3	-	>3	>3	>3
between live parts and accessible metal	>4	>4	>4	>4	>4
Tracking Resistance	KB250	KB250	KB250	KB250	KB250
PROPERTIES					
Physical					
Humidity Resistance at 91-95% relative humidity (hrs)	48	48	48	48	48
Impact Resistance (Nm)	>0.5	>0.5	>0.5	>0.5	>0.5
Shock Resistance 3 shocks in each of 3 perpendicular axis (g)	>50	-	>50	>50	>50
Vibration Resistance .075mm displacement 10-500Hz(hrs)	>2	-	>2	>2	>2
Storage term 5 year period (°C)	<125	<125	<125	<125	<125
Flame Retardancy:					
Standard	UL94V2	UL94V2	UL94V2 ^p	UL94V2	UL94V2
On Request	UL94V0/V1	UL94V0/V1	UL94V0/V1	UL94V0/V1	UL94V0/V1
Solderability to BS 2011 pt.2.1T -	6 secs at 350°C	6 secs at 350°C	6 secs at 350°C	6 secs at 350°C	6 secs at 350°C
Angular movement ± 2° overall	-	-	38°	38°	38°
Force to operate (Kg). For details contact our Sales desk	0.28	0.5	0.2 - 2.0	0.2 - 2.0	0.2 - 2.0
Weight:					
Single Pole (g)	6.2	2.2	8	-	6
Double Pole (g)	-	-	12	11	12
Mechanical Life (Operations)	>50K	>50K	>50K ^f	>50K	>50K

GENERAL INFORMATION

All switches

Insulation Class II.
Heat and Fire resistance Category D.
Ingress Protection without cover IP40.

Spring return rocker switches

Are not suitable for safety sensitive applications

Flame retardancy

p Polycarbonate rockers - V2 only.

Life and Temperature ratings

f Illuminated types 10K ops.

t 1553 is T85°C

s 1350 & 1353 are 10k

1501-1502 1551-1553	1510-1525 1560-1572	2000	5500	5550	7000	8500/8550 1250 & 8800	8600/8650
Nylon 6.6 Polycarbonate Copper Alloy Silver Plated Silver Alloy	Nylon 6.6 - Copper Alloy Silver Plated Silver Alloy	Nylon 6.6 - Copper Alloy Silver Plated -	Nylon 6.6 Polycarbonate Copper Alloy Silver Plated Silver Alloy	Nylon 6.6 Polycarbonate Copper Alloy Silver Plated Silver Alloy	Nylon 6.6 Polycarbonate Copper Alloy Silver Plated Silver	Nylon 6.6 Polycarbonate Copper Alloy Silver Plated Silver Alloy	Nylon 6.6 Polycarbonate Copper Alloy Silver Plated Silver
>10K <10 >20	>10K <10 >20	>10K <10 >20	>10K <10 >20	>10K <10 >20	10K <10 >20	10K <10 >20	10K <10 >20
>1 >3 >4 KB250	>1 >3 >4 KB250	>1 >3 >4 KB250	>1 >3 >4 KB250	>1 >3 >4 KB250	>1 >3 >4 KB175	>1 >3 >4 KB250	>1 >3 >4 KB250
48 >0.5 >50 >2 <125	48 >0.5 >50 >2 <125	48 >0.5 >50 >2 <125	48 >0.5 >50 >2 <125	48 >0.5 >50 >2 <125	48 >0.5 >50 >2 <125	48 >0.5 >50 >2 <125	48 >0.5 >50 >2 <125
UL94V2 P UL94V0/V1 6 secs at 350°C 38° 0.2 - 2.0	UL94V2 UL94V0/V1 6 secs at 350°C 35° 0.2 - 2.0	UL94V2 UL94V0/V1 6 secs at 350°C - 0.2 - 2.0	UL94V2 P UL94V0/V1 6 secs at 350°C 35° 0.2 - 2.0	UL94V2 P UL94V0/V1 6 secs at 350°C 35° 0.2 - 2.0	UL94V2 P UL94V0/V1 6 secs at 350°C - 0.2 - 2.0	UL94V2 P UL94V0/V1 6 secs at 350°C 26° 0.2 - 2.0	UL94V2 P UL94V0/V1 6 secs at 350°C 27° 0.2 - 2.0
8 12 >50K f	8 12 >50K	2 pos A body 3.9 5 pos A body 7.7 >50K	8 - >50K	- 12 >50K	25 25 >50K	<4 <5.0 >50K	4.0 6.0 >50K

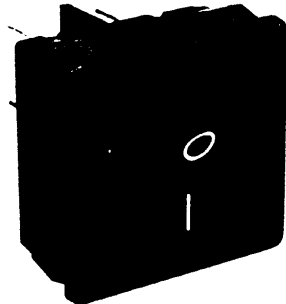
Illuminated rockers and indicators

Transparent lenses on signal lamps, neon indicators and illuminated switches are moulded in polycarbonate, a material which is attacked by hydrocarbons. Alternative materials available on request.

Weights

Products not specifically shown above:
T2225B 5g. T8550VB 5g

Rocker Switches-Miniature 10A 250Vac Single & Double Pole



To create a 7 digit catalogue number:

Refer to the 4 columns below, shaded in grey, starting with "Terminal Code"

Examples of products with their 10 digit numbers are illustrated opposite.

For other versions state the first 7 digits, then describe in words:

Rocker colour, Body colour, Rocker printing,

Voltage (for illuminated units, 100/125V marked 110V, or 200/250V marked 230V)

Indicators are available with red, amber, green or clear lenses.

All switches have 3mm contact gap.

All switches suitable for class II appliances.

◆ = Automatically assembled.

Additional technical data for this product range will be found on pages 2 and 3



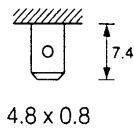
10(4)A 250Vac T90
 Inrush 25A to EN61058-1
 10A 28Vdc
 UL CSA 10A 250Vac
 UL CSA 250Vac ½hp, 125Vac ¼hp
 UL file no. E45221

▶ TERMINAL CODE

SWITCH FUNCTION CODE

▶ ROCKER CODE

H



Approvals & ratings vary with function



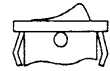
Single Pole



Double Pole

V

Curved



ON/OFF

8600 ◆

8650 ◆



ON/OFF
moment on

8601
6(1)A only

8651
6(1)A only



ON/OFF
moment off

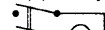
8602
6(1)A only

8652
6(1)A only



ON/OFF
illuminated

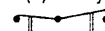
8653 ◆
6(1)A only



2 position
change-over

8610 ◆
6(1)A only

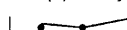
8660 ◆
6(1)A only



2 position change-over
momentary

8611
6(1)A only

8661
6(1)A only

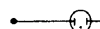


3 position change-over
centre off

8620



8630



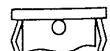
Curved Illuminated



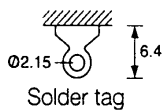
LENS CODE

F

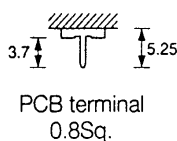
Flat (Single pole size only)



T

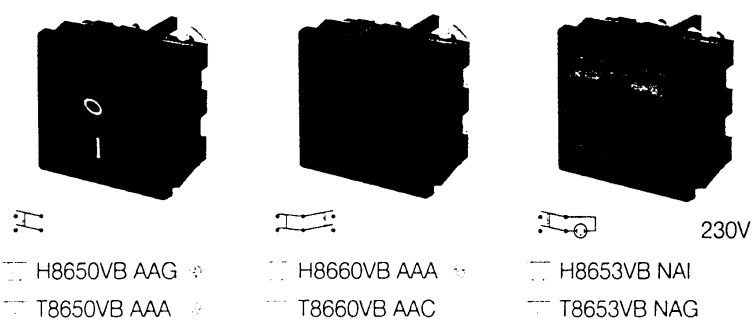
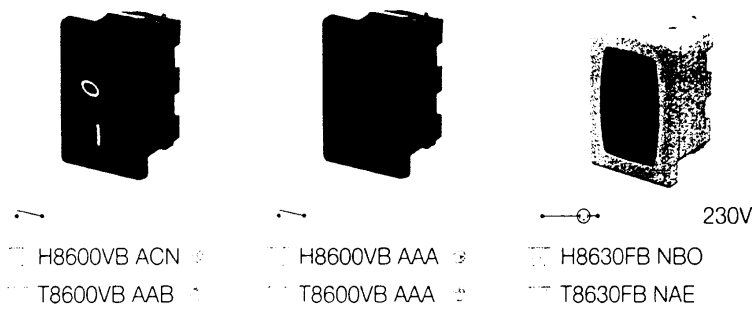


X



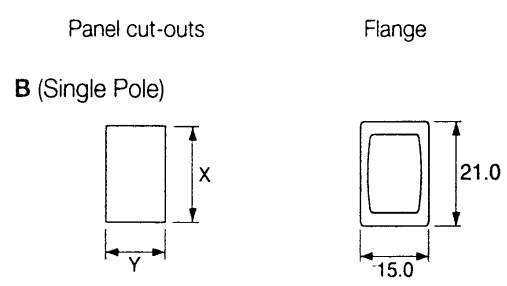
PCB terminal
0.8Sq.

Single indicator light



Stock product. See pages 46 & 47.

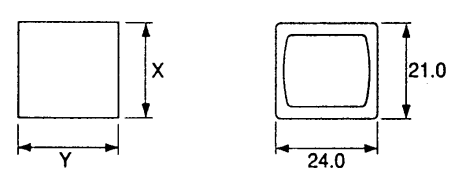
BODY CODE



Single Pole dimensions for snap-in fixing

Panel thickness	Dim. X	Dim. Y
0.75-1.25	19.1/19.2	12.9/13.0
1.25-2.0	19.3/19.4	12.9/13.0
2.0-3.0	19.7/19.8	12.9/13.0

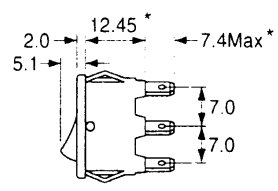
B (Double Pole)



Double Pole dimensions for snap-in fixing

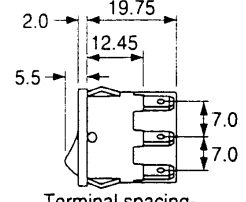
Panel thickness	Dim. X	Dim. Y
0.75-1.25	19.1/19.2	21.9/22.0
1.25-2.0	19.3/19.4	21.9/22.0
2.0-3.0	19.7/19.8	21.9/22.0

DIMENSIONS
Single pole



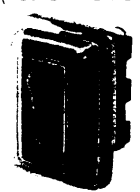
* For 8620 overall depth from bezel 23.5

Double pole

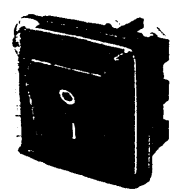


Terminal spacing- Poles 10.2 btwn ctrs.

Protective covers for single & double pole
(not for momentary types)



F0167LO



F0180LO

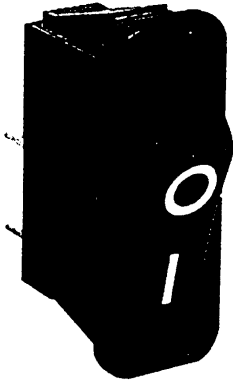
An extensive range of legends are available. Some examples are illustrated here.



CL076 CL080 CL090A



Rocker Switches-Single Pole 16A 250Vac



To create a 7 digit catalogue number:

Refer to the 4 columns below, shaded in grey, starting with "Terminal Code".

Examples of products with their 10 digit numbers are illustrated opposite.

For other versions state the first 7 digits, then describe in words:

Rocker colour, Body colour, Matt or gloss finish, Rocker printing,

Voltage (for illuminated units, 100/125V marked 110V, or 200/250V marked 230V)

Indicators are available with red, amber, green or clear lenses.

For high in-rush versions (1300 Series) see pages 20 and 21.

Switches have 3mm contact gap except where marked μ .

All switches suitable for class II appliances.

◆ = Automatically assembled.

Additional technical data for this product range will be found on pages 2 and 3



16(4)A 250Vac T85 [10(3)A 250Vac T125 on application]

20A 28Vdc

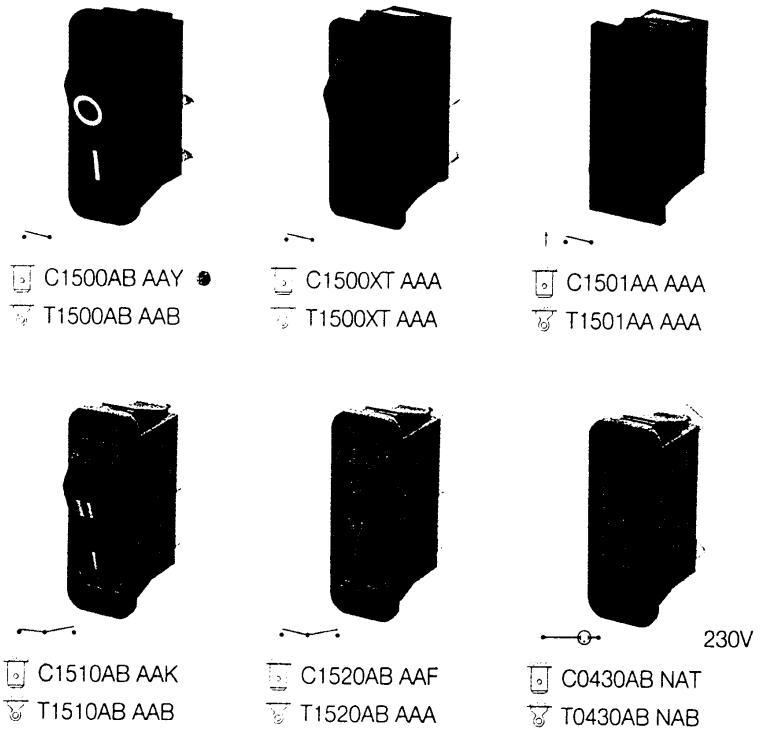
UL CSA 16A 250Vac

UL CSA (2 position) 250Vac 1hp, 125Vac 1/2hp

UL CSA (3 position) 250Vac 1/2hp, 125Vac 1/4hp

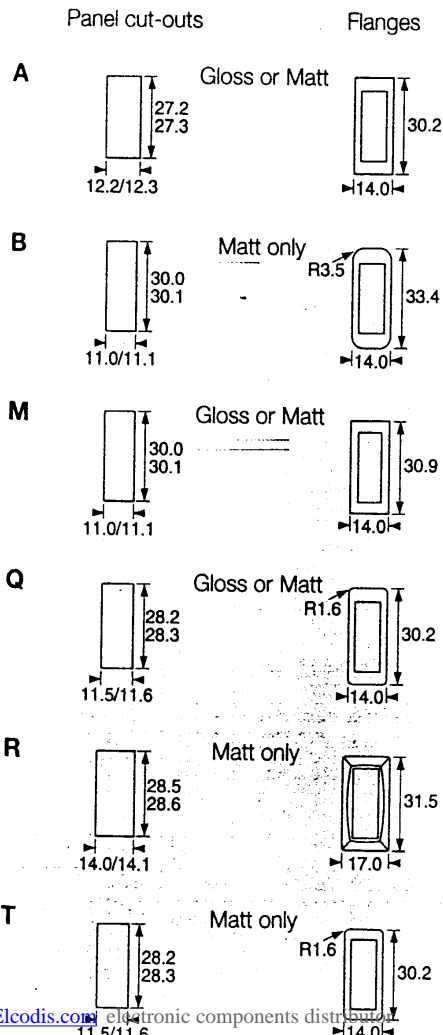
UL file no. E45221

TERMINAL CODE	SWITCH FUNCTION CODE	ROCKER CODE
C 6.3 x 0.8	Approvals & ratings vary with function 	A Softline Matt only
H 4.8 x 0.8	1500 ◆ ON/OFF	H Slotted for Custom Adaptors NEW not for momentary
K 2.8 x 0.8	1502 HP Rating N/A ON/OFF momen off	N Slimline sub-panel rocker NEW End view Matt only
T Solder tag	1510 ◆ μ HP Rating N/A 2 position change-over	V Curved Matt or gloss
U Solder tag	1511 μ HP Rating N/A 2 position change-over momentary	X 2 Colour rocker Matt only not for momentary
X Solder tag	1520 ◆ μ 250V 1/2HP 125V 1/4HP 13.5A ONLY 3 position change-over centre off	LENS CODE A Softline Matt only
0430 PCB terminal 0.8 Sq Terminal N/A	1521 μ HP Rating N/A 13.5A ONLY 3 position change-over centre off momen 1 side	1522 μ HP Rating N/A 13.5A ONLY 3 position change-over centre off momen 2 sides
0430 Neon indicator		

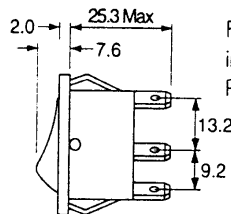


Stock product. See pages 46 & 47.

BODY CODE



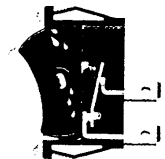
DIMENSIONS



For snap-in fixing, panel holes must be punched in the same direction as the unit is to be fitted. Panel thickness between 0.75 and 2.5mm.

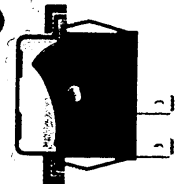
Moisture resistant switches

Certain switches can be assembled with an internal barrier for improved resistance against the ingress of water or dust. Applications should be discussed with Arcoelectric.



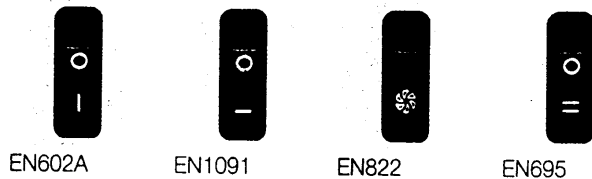
Moisture resistant covers (IP65)

Snap on to A, Q, T and M bodies. Add G after body code in catalogue number. (not suitable for momentary types.) Fitting these items reduces panel thickness range.

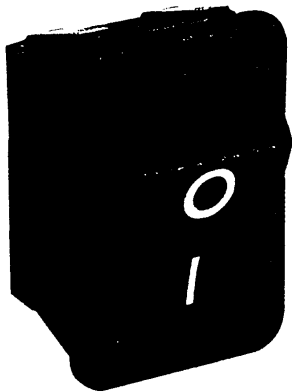


An extensive range of legends are available.

Some examples are illustrated here.



Rocker Switches-Double Pole 16A 250Vac



To create a 7 digit catalogue number:

Refer to the 4 columns below, shaded in grey, starting with "Terminal Code".

Examples of products with their 10 digit numbers are illustrated opposite.

For other versions state the first 7 digits, then describe in words:

Rocker colour, Body colour, Matt or gloss finish, Rocker printing.

Voltage (for illuminated units, 100/125V marked 110V, or 200/250V marked 230V).

Illuminated switches & indicators available with red, amber, green or clear lenses/rockers.

For High in-rush versions (1300 Series) see pages 20 and 21.

Switches have 3mm contact gap except where marked μ .

All switches suitable for class II appliances.

Most switches shown can be supplied with single pole switching in double pole boxes.

♦ = Automatically assembled.

Additional technical data for this product range will be found on pages 2 and 3.



16(4)A 250Vac T85 [10(3)A 250Vac T125 on application]

20A 28V dc

UL CSA 16A 250Vac

UL CSA (2 position) 250Vac 1hp, 125Vac 1/2hp

UL CSA (3 position) 250Vac 1/2hp, 125Vac 1/4hp

UL file no. E45221

▶ TERMINAL CODE ▶

C

6.3 x 0.8

1550 ♦

H

4.8 x 0.8

1551
HP Rating N/A

1552
HP Rating N/A

K

2.8 x 0.8

1553 ♦

1560 ♦ μ

T

02.15

Solder tag

1561 μ
HP Rating N/A

1570 ♦ μ
250V 1/2HP
125V 1/4HP

U

02.15

Solder tag

13.5A ONLY
1571 μ
HP Rating N/A

13.5A ONLY
1572 μ
HP Rating N/A

X

4.0

1484 μ
5A ONLY
Further circuits available

0480
PCB terminal 0.8 Sa
X terminal N/A

SWITCH FUNCTION CODE

Approvals and Ratings vary with function

ON/OFF

ON/OFF
momen on

ON/OFF
momen off

ON/OFF
with light

2 position
change-over

2 position
change-over
momentary

3 position
change-over
centre off

3 position
change-over
centre off (momen 1 side)

3 position
change-over
centre off (momen 2 sides)

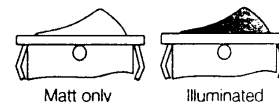
3 position
selective
OFF/A/A+B

Neon indicator

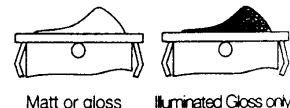


▶ ROCKER CODE

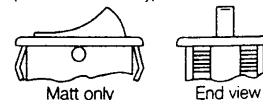
A Softline



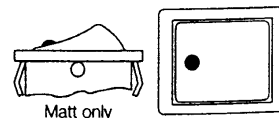
V Curved



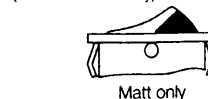
N Slimline sub-panel rocker
(not for momentary)



P Illuminated window



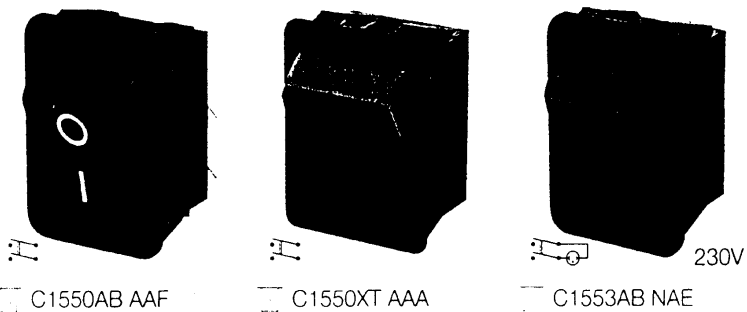
X Softline 2 Colour Rocker
(not for momentary)



LENS CODE

A Softline

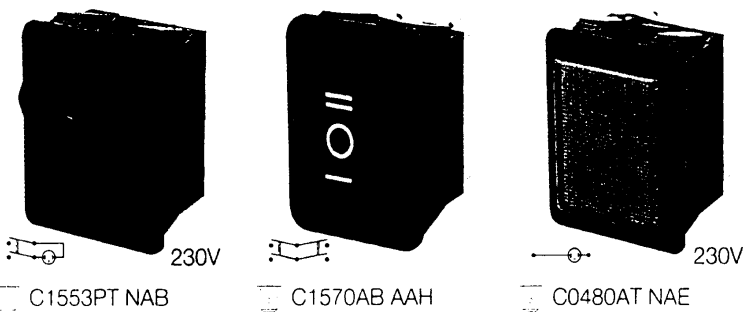




C1550AB AAF

C1550XT AAA

C1553AB NAE



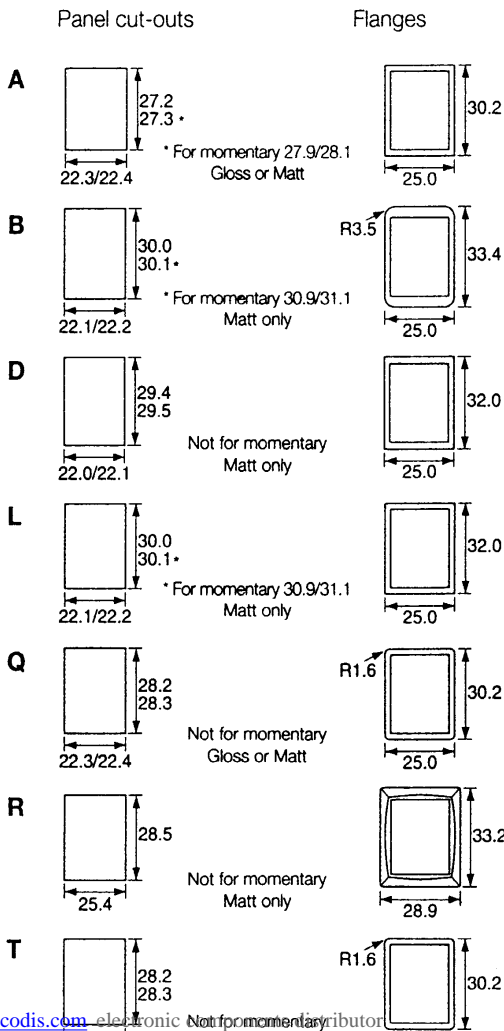
C1553PT NAB

C1570AB AAH

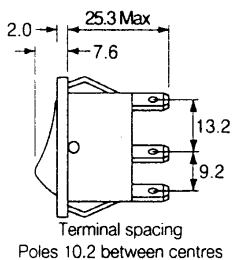
C0480AT NAE

Stock product. See pages 46 & 47.

BODY CODE



DIMENSIONS



For snap-in fixing, panel holes must be punched in the same direction as the unit is to be fitted.

Panel thickness between:

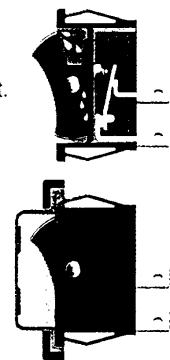
- A, Q** 0.75 and 3.3mm.
- L, B, T** 0.75 and 2.5mm.
- D** 0.75 and 1.2mm.
- R** 0.75 and 3.0mm.

Moisture resistant switches

Certain switches can be assembled with an internal barrier for improved resistance to the ingress of water or dust. Applications should be discussed with Arcoelectric.

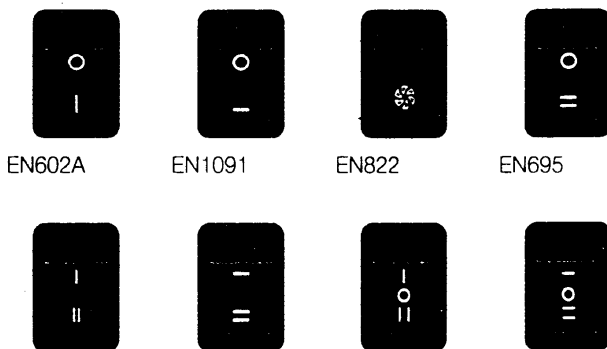
Moisture resistant covers (IP65)

Snap-on to A, L, Q or T bodies.
Add G after body code in catalogue number.
A panel sealing washer W42 is available.
Covers/washers reduce panel thickness range.
(not suitable for momentary types.)

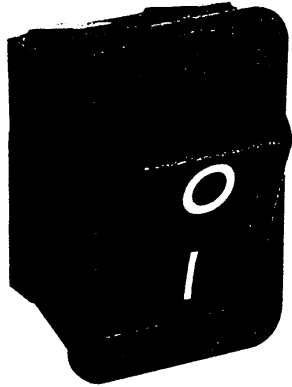


An extensive range of legends are available.

Some examples are illustrated here.



High Inrush Switches 150A to EN61058-1



To create a 7 digit catalogue number:

Refer to the 4 columns below, shaded in grey, starting with "Terminal Code"

Examples of products with their 10 digit numbers are illustrated opposite.

For other versions state the first 7 digits, then describe in words:

Rocker colour, Body colour, Matt or gloss finish, Rocker printing,

Voltage (for illuminated units, 100/125V marked 110V, or 200/250V marked 230V)

Illuminated switches are available with red, amber, green or clear lenses/rockers.

All switches have 3mm contact gap.

All switches suitable for class II appliances.

◆ = Automatically assembled.

Additional technical data for this product range will be found on page 2.



©150A Inrush to EN61058-1

16(4)A 250Vac T85

20A 28Vdc

UL CSA 20A 250Vac

UL CSA 250Vac 1hp, 125Vac ½hp

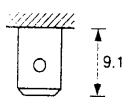
UL file no. E45221

▶ TERMINAL CODE ▶

SWITCH FUNCTION CODE

▶ ROCKER CODE

C

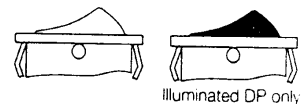


6.3 x 0.8

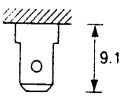
Approvals & ratings
vary with function



A Softline
Matt only



H



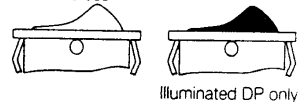
4.8 x 0.8

1300 ◆
16(6) T125+++

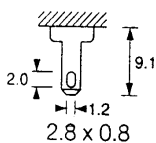
Single pole
ON/OFF



V Curved
Matt or Gloss



K



2.8 x 0.8

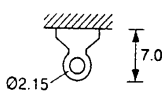
Approvals & ratings
vary with function



P
Illuminated window
Matt only



T



Solder tag

1350 ◆
16(4) T85*

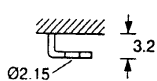
Double pole
ON/OFF



X
Softline
2 colour rocker
Matt only



U



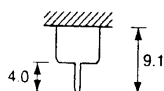
Solder tag

*Rating 16(6) T125+++ is available on catalogue number C1350AL

J
Lever
DP only Gloss only



X



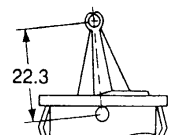
PCB terminal 0.8 Sq

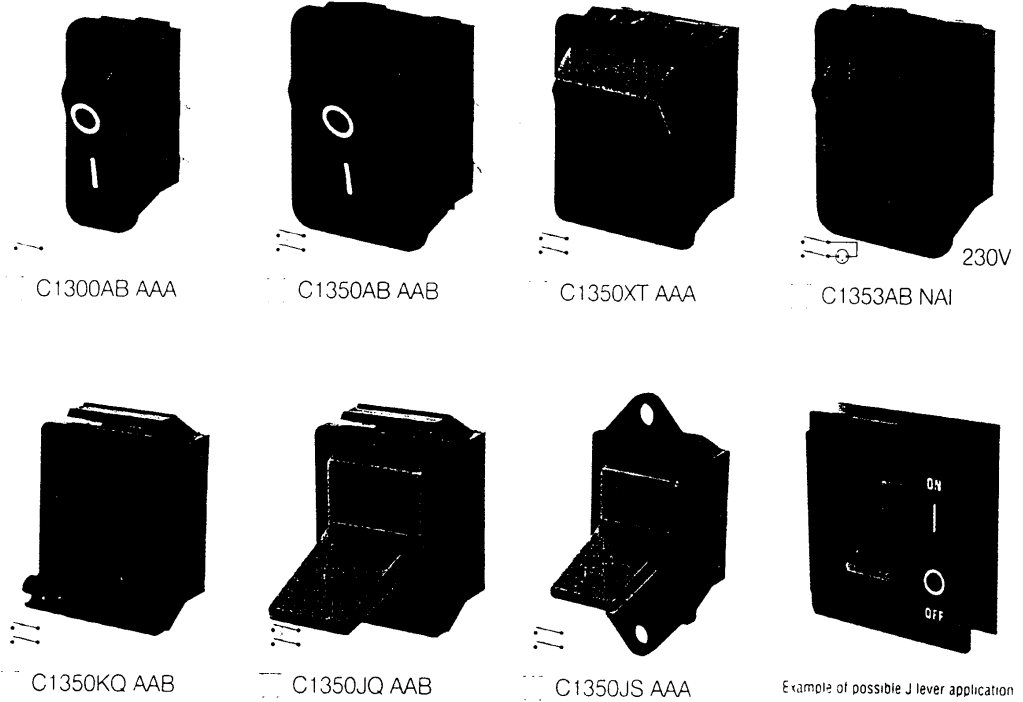
1353 ◆
16(4) T85

Double pole
ON/OFF
with light



K
Lever
DP only
Matt only



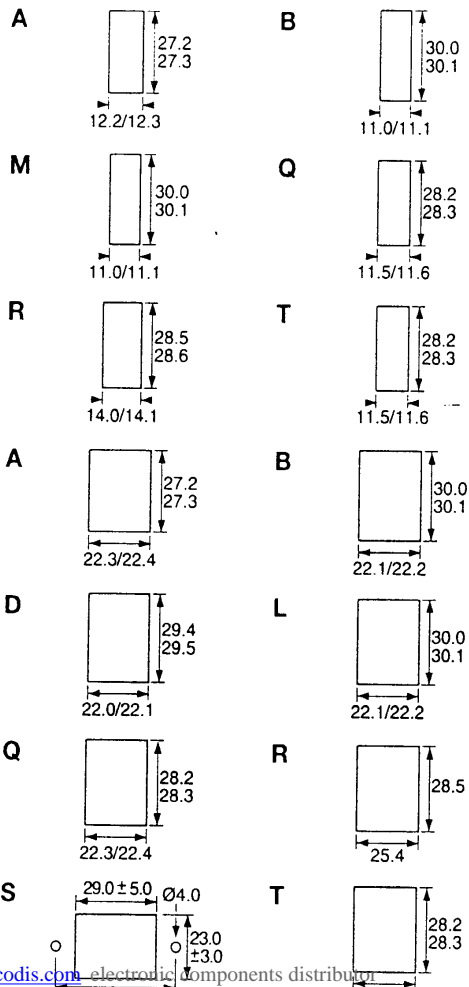


Stock product. See pages 46 & 47.

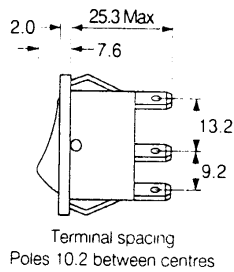


BODY CODE

Single and Double Pole cut-outs



DIMENSIONS

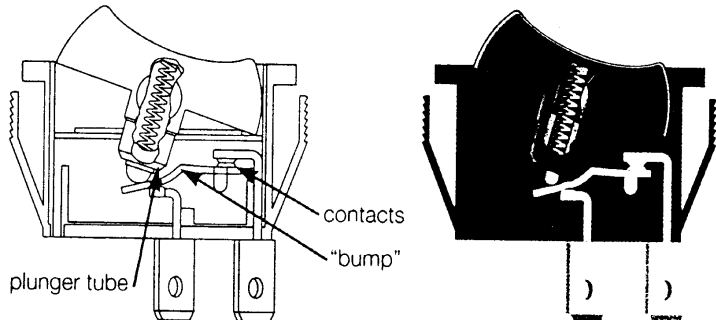


For snap-in fixing, panel holes must be punched in the same direction as the unit is to be fitted. Panel thickness between:

- Single Pole** 0.75 and 2.5mm.
- Double Pole A,Q** 0.75 and 3.3mm.
- B,T** 0.75 and 2.5mm.
- D** 0.75 and 1.2mm.
- R** 0.75 and 3.0mm.

Positive Break Switching - 1300 and 1350 series

Is necessary to ensure reliable isolation when high inrush currents exist. This simple mechanical system ensures that contact welds formed when switching on, are positively separated by the plunger tube acting directly on the moving contact "bump".



Moisture resistant covers

To fit A, L, Q, and T bodies. Details of these products can be found on pages 11, 15 & 17.

Legends are available.

Examples are illustrated here.

