# SWAY19725EC.1709

## **AV** series

Security pushbutton switches • Ø 19 or 22 mm • momentary NO



## **DISTINCTIVE FEATURES**

Momentary (NO)

Momentary (NC) and alternate action also available

Long life

**UL-CSA** approved (long case only)

Marking available



## **ENVIRONMENTAL SPECIFICATIONS**

- Optional front panel sealing: IP65 according to IEC 60529
- Operating temperature: -30 °C to +70 °C (-22 °F to +158 °F)



## **ELECTRICAL SPECIFICATIONS**

- Max. current/voltage rating with resistive load :
- A contacts: 4 A 12 VDC, 500,000 cycles
- C contacts: 2 A 48 VDC, 10,000 cycles
- Approved ratings of models with long case and A contacts (AV..000):
   UL-CSA: 4 A 250 VAC 8 A 125 VAC 6,000 cycles
- Initial contact resistance :  $50 \text{ m}\Omega$  max.
- $\bullet$  Insulation resistance : 1,000  $\text{M}\Omega$  min. at 500 VDC
- Dielectric strength:
  - 2,000 Vrms 50 Hz min. between terminals and frame
- 2,000 Vrms 50 Hz min. between terminals



## **GENERAL SPECIFICATIONS**

- Torque: 5 Nm min.- 14 Nm max. applied to nut
- Panel thickness : 1 (.039) to 11 mm (.433) max.
- Low level or mechanical life: 1,000,000 cycles
- Hand soldering: 300 °C (572 °F), 3 sec. max.



#### **MATERIALS**

- Case : PBT
- Contacts: silver (A) or brass, silver plated (C)
- Bushing and actuator : see following pages

The company reserves the right to change specifications without notice.





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#### **AGENCY APPROVAL**

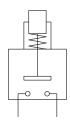


4 A 250 VAC /8 A 125 VAC (long case only)

To order switches marked UL-CSA, add "UU" at the end of model number.



## **ELECTRICAL FUNCTIONS**



Function 3 (NO)



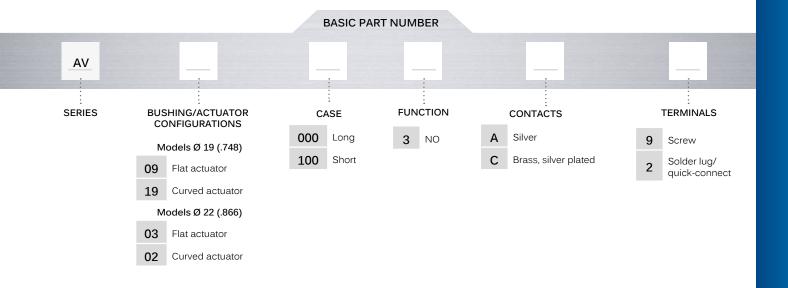
## PANEL MOUNTING

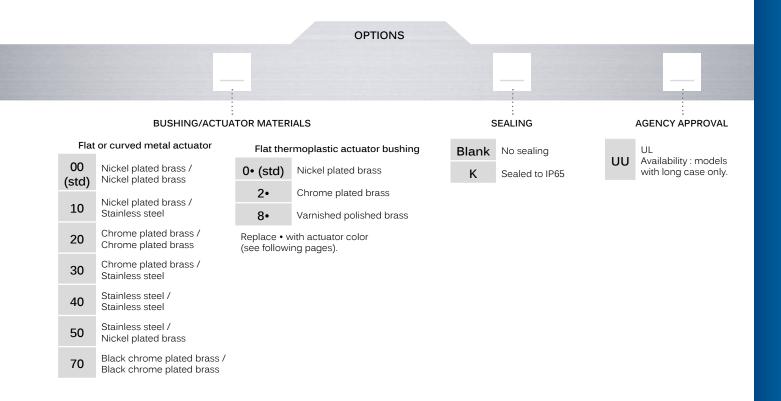
- Panel cut-out :Ø 19,2 mm (.755) or Ø 22.2 mm (.874)
- Min. pitch for matrix mounting: 30 mm x 30 mm (1.181x1.181)

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## **(£3)**

## **BUILD YOUR PART NUMBER**







#### **ABOUT THIS SERIES**

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

- Notice: please note that not all combinations of above numbers are available. Refer to the following pages for further information.
- Mounting accessories: standard hardware supplied: 1 hex nut. Standard and special hardware is presented in the "Hardware" section of website.

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## BUSHING Ø 19 (.748) - FLAT ACTUATOR SHORT CASE - 48 VDC



• Contacts. Replace with A or C.

## BUSHING Ø 19 (.748) - CURVED ACTUATOR SHORT CASE - 48 VDC



• Contacts. Replace with A or C.

### BUSHING Ø 19 (.748) - FLAT ACTUATOR LONG CASE- 4 A 250 VAC/8 A 125 VAC - UL/CSA



To order switches marked UL-CSA, add "UU" at the end of model number.

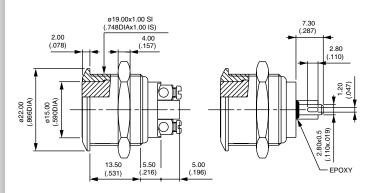
## BUSHING Ø 19 (.748) - CURVED ACTUATOR LONG CASE - 4 A 250 VAC/8 A 125 VAC - UL/CSA



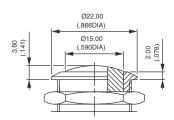
To order switches marked UL-CSA, add "UU" at the end of model number.

Screw terminals for wires 1.5 mm<sup>2</sup> max.

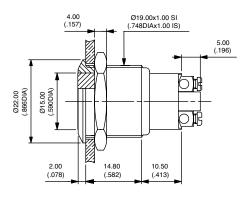
Hex nut 22 (.866) across flats



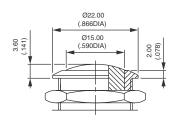
Hex nut 22 (.866) across flats



Hex nut 22 (.866) across flats



Hex nut 22 (.866) across flats



## APEM

## **AV** series

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## BUSHING Ø 22 (.866) - FLAT ACTUATOR SHORT CASE - 48 VDC



• Contacts. Replace with A or C.

## BUSHING Ø 22 (.866) - CURVED ACTUATOR SHORT CASE - 48 VDC



• Contacts. Replace with A or C.

## BUSHING Ø 22 (.866) - FLAT ACTUATOR LONG CASE - 4 A 250 VAC/8 A 125 VAC - UL/CSA



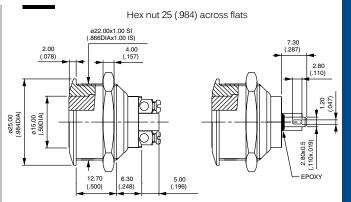
To order switches marked UL-CSA, add "UU" at the end of model number.

## BUSHING Ø 22 (.866) - CURVED ACTUATOR LONG CASE - 4 A 250 VAC/8 A 125 VAC - UL/CSA

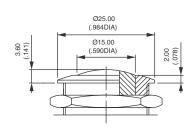


To order switches marked UL-CSA, add "UU" at the end of model number.

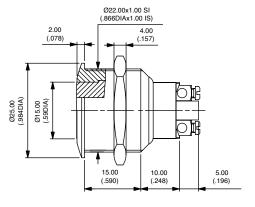
Screw terminals for wires 1.5 mm<sup>2</sup> max.



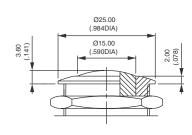
Hex nut 25 (.984) across flats



Hex nut 25 (.984) across flats



Hex nut 25 (.984) across flats



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### BUSHING Ø 22 (.866) - MOMENTARY, NORMALLY CLOSED

- Single pole, screw terminals, without marking
- Silver plated copper contacts (C)
- Max. current/voltage rating with resistive load :
   2 A 250 VAC 3 A 125 VAC 2.5 A 24 VDC
- Dielectric strength:
   2,000 Vrms 50 Hz min. betw. terminal and frame
   2,000 Vrms. 50 Hz min. between terminals
- Electrical life: 100,000 cycles at 0.3 A 24 VAC or DC 10,000 cycles at full load

Flat actuator

Curved actuator

AV031202C9

10

AV021202C9

0 1 0

### BUSHING Ø 22 (.866) - ALTERNATE ACTION

- Double pole, solder lug/quick-connect terminal, curved actuator
- Silver contacts
- Max. current/voltage rating with resistive load:
   3 (1.5) A 250 VAC 6 A 125 VAC 3 A 24 VAC or DC
- Dielectric strength: 3,000 Vrms min. between terminals and frame
- Electrical life : 10,000 cycles at full load 50,000 cycles at 1 A 24 VAC or DC
- Mechanical life: 100,000 cycles

10

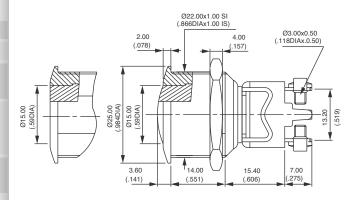
AV044746A2

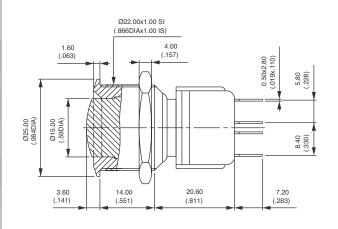
. NC

ON

For further scpecificarions, see previous pages

Hex nut 25 (.984) across flats



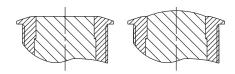


#### BUSHING/ACTUATOR MATERIALS

BASIC P/N

#### FLAT OR CURVED METAL ACTUATOR

CODE	BUSHING	ACTUATOR
00 (std)	Nickel plated brass	Nickel plated brass
10	Nickel plated brass	Stainless steel
20	Chrome plated brass	Chrome plated brass
30	Chrome plated brass	Stainless steel
40	Stainless steel	Stainless steel
50	Stainless steel	Nickel plated brass
70	Black chrome plated brass	Black chrome plated brass



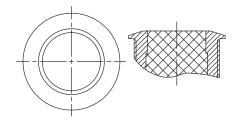
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## BUSHING/ACTUATOR MATERIALS (CONTINUED)

BASIC P/N

#### FLAT THERMOPLASTIC ACTUATOR

CODE	BUSHING	ACTUATOR
0• (std)	Nickel plated brass	Replace • with one of the following codes:  1: blue - 1/4: dark blue -  2: black - 3: green - 4: grey -  5: yellow - 6: red - 7/1: white  - 9: orange
2•	Chrome plated brass	
8•	Varnished polished brass	

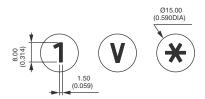


#### MARKING



For flat or curved actuator: by laser etching on non-illuminated brass or stainless steel actuator.

For **flat actuator**: by hot stamping on thermoplastic insert (illuminated actuators). Not available for **AV031202C9** and **AV044746A2**.



Select an option from each of the two paragraphs opposite (Type /Color).

TYPE OF MARKING

 0 to 9
 Numbers 0 to 9

 X
 Symbol \*

 Y
 Symbol #

 A to N
 Letters A to N

 P to W
 Letters P to W

 0
 Letter O

Letter O: same code and same design as number 0. For special symbols, consult factory. Minimum order: 500 pieces

COLOR OF MARKING

#### **Brass actuator**

0 (std) Same as finish

2 Black

Note: a finished product supplied in version "0" cannot be modified to version "2".

#### Thermoplastic actuator

2 Black7 White

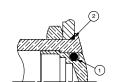
#### SEALING

BASIC P/N

Blank No sealing

K Front panel sealing to IP65

#### OPTION K



- ① internal gasket
- 2 external gasket

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67021K512 67081K512X 701PB580 7199K101 810K12910 810KSV30B MML21EA2ADK MML21KA3ABK MML23KA3AC05K-001
MML23KW3AA01W 8418K2 8442K2 8442K3 8450K1 860K11911T01A 861901 861K11911T01A07 861K13810T00A14 861K13911
8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837
PV3H2B0NN-341 1203MRA A22NZBGANGA A22NZBMMNGA A22NZBNANGA A22NZMPATRA A2PMA1X03EC56 A3A-5123-02
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