# SWAY 1972 AICH 1808

## **AV** series

Security pushbutton switches • Ø 19 or 22 mm • latching



#### **DISTINCTIVE FEATURES**

Latching
Illuminated or non-illuminated
Three terminal types





#### **ENVIRONMENTAL SPECIFICATIONS**

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



## **ELECTRICAL SPECIFICATIONS**

- Max. current/voltage rating with resistive load: 2 A 48 VDC
- Initial contact resistance :  $50 \text{ m}\Omega$  max.
- Insulation resistance : 1,000 M $\Omega$  min. at 500 VDC
- Dielectric strength: 1,000 Vrms 50 Hz min. between terminals 500 Vrms 50 Hz min. between terminals and frame
- Electrical life: 500,000 cycles at 2 A 48 VDC

LED COMPONENT SPECIFICATIONS			
LED color	Forward current	Typ. forward voltage	Max. forward voltage
Red	20 mA	1.95 V	1.95 V
Yellow	20 mA	2 V	2.05 V
Green	20 mA	2.1 V	2.5 V
Blue	20 mA	3.2 V	4 V

A resistor must be series-connected by the user. Resistor value = supply voltage - LED forward voltage

LED forward current



#### **GENERAL SPECIFICATIONS**

- Torque: 5 Nm min. 14 Nm max. applied to nut
- Panel thickness: 1 (.039) to 9 mm (.354) max.
- Low level or mechanical life: 1,000,000 cycles
- Hand soldering: 300 °C (572 °F), 4 seconds max.

The company reserves the right to change specifications without notice.



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## **MATERIALS**

• Case : PA6T UL94-V0

• Contacts : silver

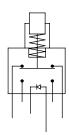
• Bushing and actuator : see following pages

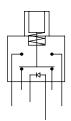
• LED

 $\ensuremath{\mathsf{APEM}}$  products may be recycled at end-of-life for the re-claiming of valuable metal components.



#### **ELECTRICAL FUNCTIONS**







## **MOUNTING**

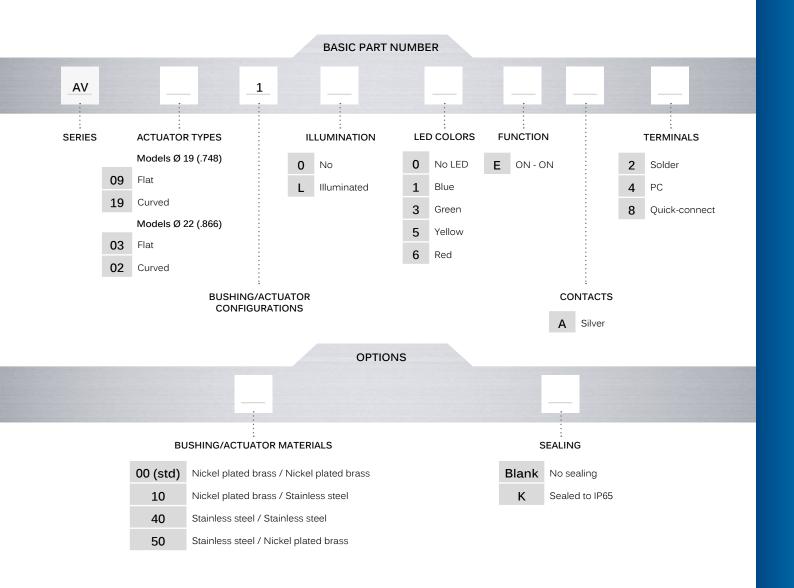
• Panel cut-out : Ø 19.2 mm (.755) or Ø 22.2 mm (.874)

• Min. pitch for matrix mounting : 30 mm x 30 mm (1.181 x 1.181)

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#### **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) - NON-ILLUMINATED SOLDER LUG TERMINALS



<sup>\*</sup> Also available with prominent actuator in the non-latched position.

## BUSHING Ø 19 (.748) - ILLUMINATED SOLDER LUG TERMINALS



Replace • with desired LED color.

## BUSHING Ø 22 (.866) - NON-ILLUMINATED SOLDER LUG TERMINALS

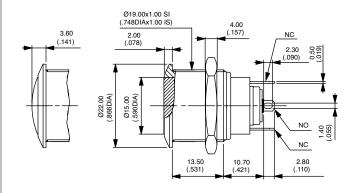


<sup>\*</sup> Also available with prominent actuator in the non-latched position.

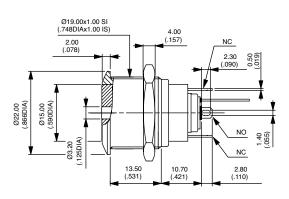
## BUSHING Ø 22 (.866) - ILLUMINATED SOLDER LUG TERMINALS



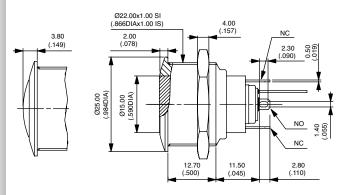
Hex nut 22 (.866) across flats



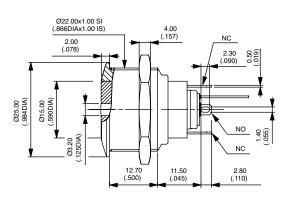
Hex nut 22 (.866) across flats



Hex nut 25 (.984) across flats

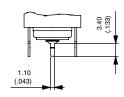


Hex nut 25 (.984) across flats



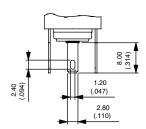
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#### STRAIGHT PC TERMINALS



Replace 2 with 4 at the end of the model numbers shown on previous page.

## **QUICK-CONNECT TERMINALS**



Replace  ${\bf 2}$  with  ${\bf 8}$  at the end of the model numbers shown on previous page.

## BUSHING/ACTUATOR MATERIALS

BASIC P/N

CODE	BUSHING	ACTUATOR
00 (std)	Nickel plated brass	Nickel plated brass
10	Nickel plated brass	Stainless steel
40	Stainless steel	Stainless steel
50	Stainless steel	Nickel plated brass

#### **SEALING**

BASIC P/N

Blank No sealing

Κ Front panel sealing to IP65 OPTION K



- 1 elastomeric membrane
- 2 external gasket