Tactile security pushbutton switches with overmolded actuator • Ø 19 or 22 mm



# **DISTINCTIVE FEATURES**

Tactile feedback
Illuminated or non-illuminated
Momentary (NO)
Overmolded marking available





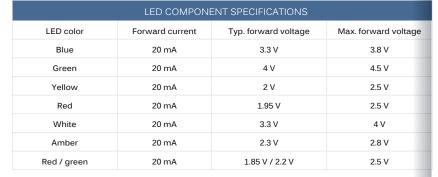
# **ENVIRONMENTAL SPECIFICATIONS**

- Front panel sealing: IP67 or IP69K 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 : 50 mA 24 VDC
- Initial contact resistance : 100 m $\Omega$  max.
- Insulation resistance : 1,000 M $\Omega$  min. at 500 VDC
- Dielectric strength: 500 Vrms 50 Hz min. between terminals 2,000 Vrms 50 Hz min. between terminals and frame
- Electrical life: 1,000,000 cycles at full load



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

LED forward current

The company reserves the right to change specifications without notice.



Tactile security pushbutton switches with overmolded actuator • Ø 19 or 22 mm



## **GENERAL SPECIFICATIONS**

- Travel: 0.7 mm (.027) ± 0.1 mm (.003)
- Operating force :  $7 \text{ N} \pm 2 \text{N}$  Sealing option K will increase the operating force.
- Torque: 5 Nm min.- 14 Nm max. applied to nut
- Panel thickness: 1 (.039) to 6 mm (.236) max.
- Hand soldering: 270 °C, 3 seconds max.



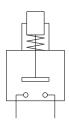
## **MATERIALS**

- Case: PA46 UL94-V0
- Terminals : brass, gold plated
- Contacts : gold plated dome
- Bushing : see following pages
- Actuator : stainless steel, with thermoplastic overmolding
- LED

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.



## **ELECTRICAL FUNCTIONS**



Function 3 (NO)



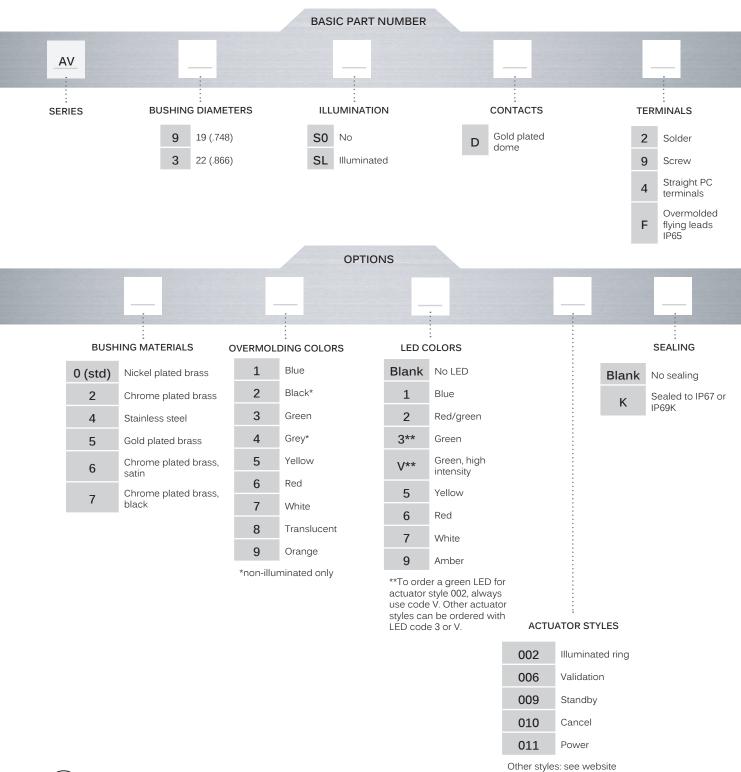
#### **MOUNTING**

- 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)

Tactile security pushbutton switches with overmolded actuator • Ø 19 or 22 mm



# **BUILD YOUR PART NUMBER**



# (4)

#### **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.

Tactile security pushbutton switches with overmolded actuator • Ø 19 or 22 mm

## BUSHING Ø 19 (.748) - FLAT ACTUATOR **SOLDER LUG TERMINALS**

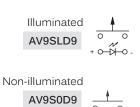






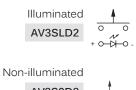
## BUSHING Ø 19 (.748) - FLAT ACTUATOR **SCREW TERMINALS**





## BUSHING Ø 22 (.866) - FLAT ACTUATOR **SOLDER LUG TERMINALS**

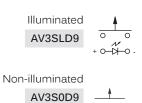


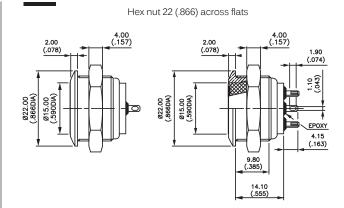


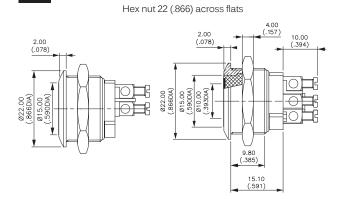
# AV3S0D2

## BUSHING Ø 22 (.866) - FLAT ACTUATOR **SCREW TERMINALS**

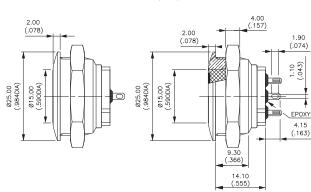


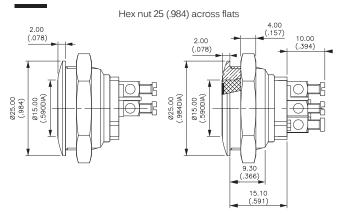




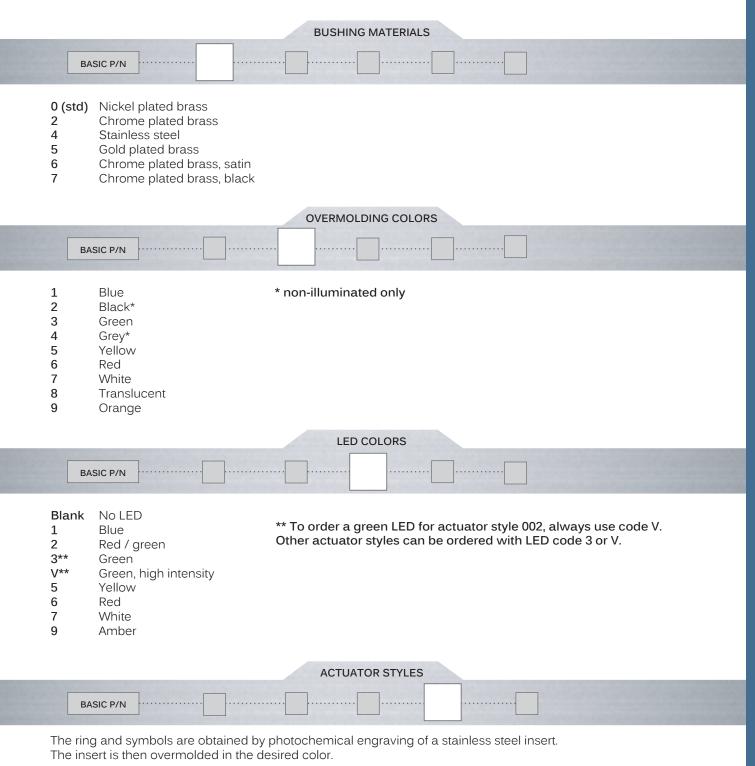


Hex nut 25 (.984) across flats





Tactile security pushbutton switches with overmolded actuator • Ø 19 or 22 mm



The following actuator styles are available. For other types, consult factory.





















Illuminated ring and disc



003 Arrow

004 Loudspeaker OFF

005 Opening

006 Validation

800 Closing

009 Standby

010 Cancel

011 Power

Tactile security pushbutton switches with overmolded actuator • Ø 19 or 22 mm

	SEALING
BASIC P/N	

Blank No sealing

K Front panel sealing to IP67 or IP69K

#### OPTION K - FRONT PANEL SEALING IP67



- 1 internal membrane
- 2 external gasket

#### OPTION K - FRONT PANEL SEALING IP69K

