SMARIPOZIOHERM AV series

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
- \bullet 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 Ω max.
- Insulation resistance : 1.000 M Ω 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

LED COMPONENT SPECIFICATIONS			
LED color	Forward current	Typ. forward voltage	Max. forward voltage
Blue	20 mA	3.3 V	3.8 V
Green	20 mA	4 V	4.5 V
Yellow	20 mA	2 V	2.5 V
Red	20 mA	1.95 V	2.5 V
White	20 mA	3.3 V	4 V
Amber	20 mA	2.3 V	2.8 V
Red / green	20 mA	1.85 V / 2.2 V	2.5 V

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.





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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 (518 °F), 3 sec. max.



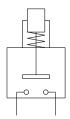
MATERIALS

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

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



ELECTRICAL FUNCTIONS



Function 3 (NO)



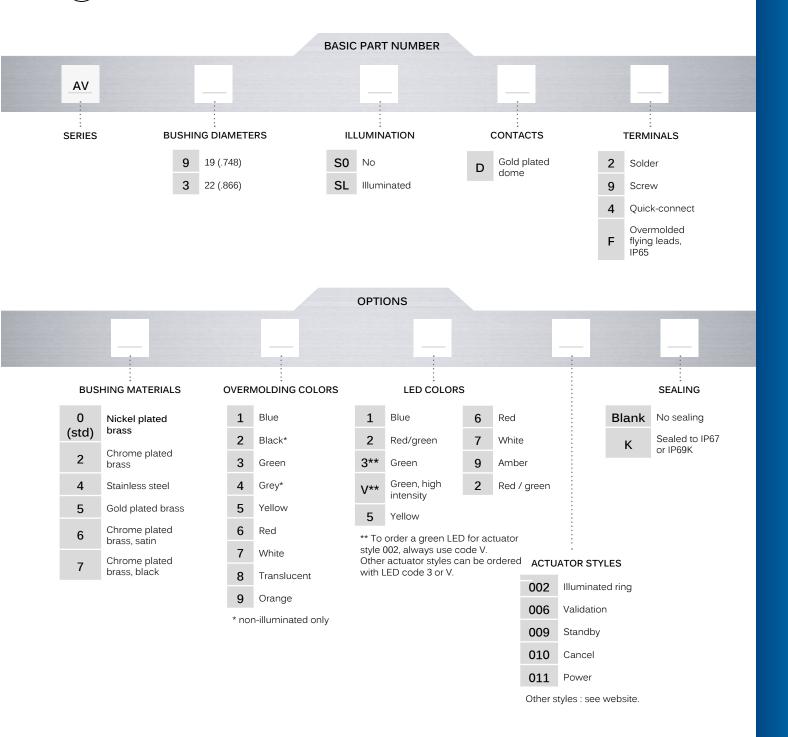
MOUNTING

- 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)

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(F3)

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.

- (1) 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 SOLDER LUG TERMINALS



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

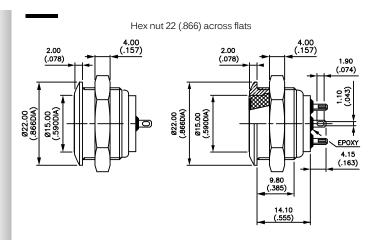


BUSHING Ø 22 (.866) - FLAT ACTUATOR SOLDER LUG TERMINALS

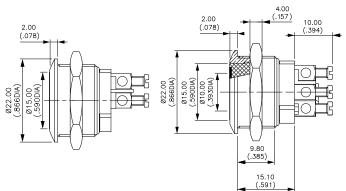


BUSHING Ø 22 (.866) - FLAT ACTUATOR SCREW TERMINALS

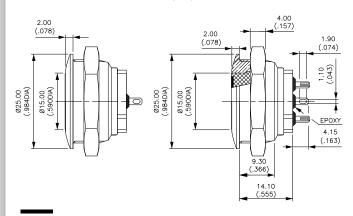




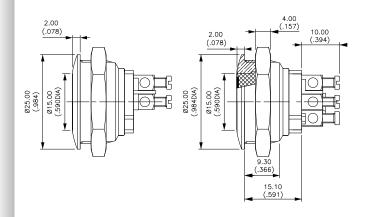
Hex nut 22 (.866) across flats



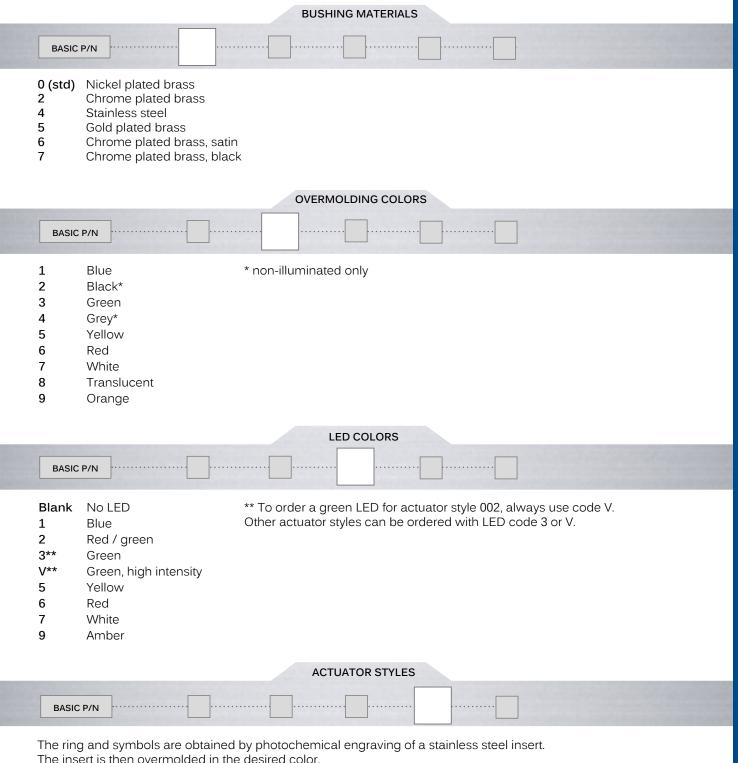
Hex nut 25 (.984) across flats



Hex nut 25 (.984) across flats



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The insert is then overmolded in the desired color.

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





















001 Illuminated ring and disc

002 Illuminated ring

Arrow

003

Loudspeaker OFF

005 Opening

006 Validation

800 Closing

009 Standby

010 Cancel

011 Power

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