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



SWAVID20VERM2012

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)

(4)

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load : 50 mA 24 VDC
- Initial contact resistance : 100 m Ω max.
- Insulation resistance : 1.000 $\text{M}\Omega$ 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

| 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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(③) GENERAL SPECIFICATIONS

- Travel : 0.7 mm (.027) ± 0.1 mm (.003)
- Operating force : 7 N \pm 2N 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.

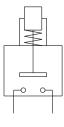
- Case : PA46 UL94-V0
- Terminals : brass, gold plated
- Contacts : gold plated dome
- Bushing : see following pages
- Actuator : stainless steel, with thermoplastic overmolding

• LED

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

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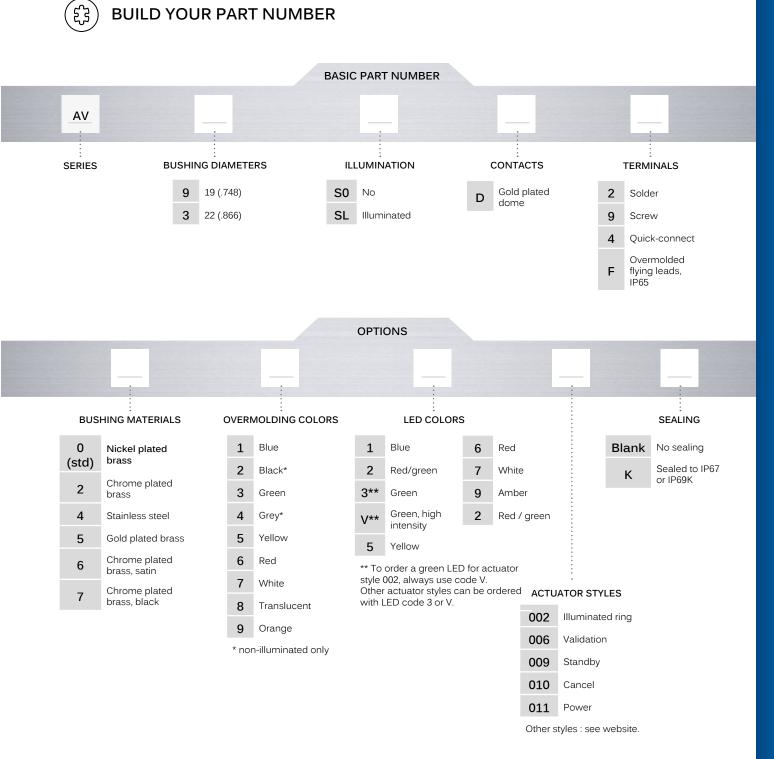
ELECTRICAL FUNCTIONS



Function 3 (NO)

- 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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ABOUT THIS SERIES

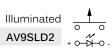
On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

() Notice: please note that not all combinations of above numbers are available. Refer to the following pages for further information.

D Mounting accessories: standard hardware supplied : 1 hex nut. Standard and special hardware is presented in the "Hardware" section of website.

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Non-illuminated AV9S0D2 0 0

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





Non-illuminated AV9S0D9 0

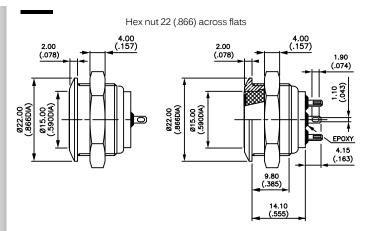
BUSHING Ø 22 (.866) - FLAT ACTUATOR SOLDER LUG TERMINALS



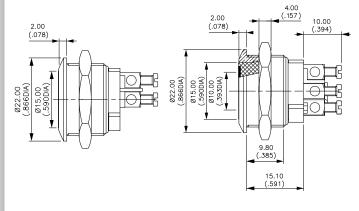
| | Illuminated | | | |
|-----|---------------|---|---|-------|
| | AV3SLD2 | | 0 | v |
| | | + | 0 | x−0 - |
| | | | | |
| Nor | n-illuminated | | 4 | L L |
| | AV3S0D2 | | 0 | 0 |
| | | | | |

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

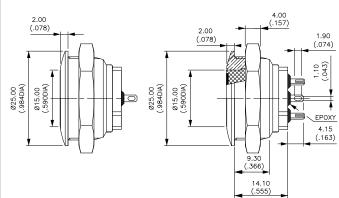




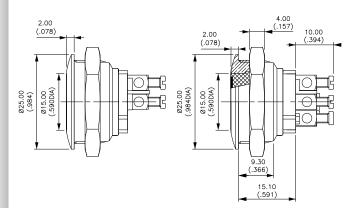






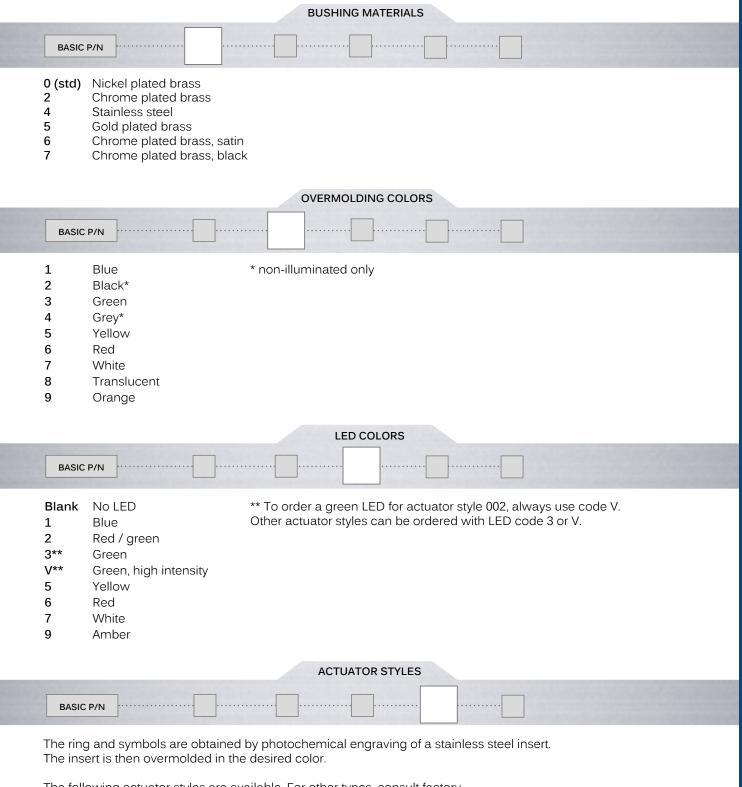


Hex nut 25 (.984) across flats



PANEL SWITCHES

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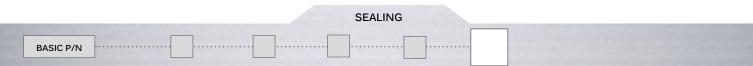


The following actuator styles are available. For other types, consult factory.



APEN

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Blank No sealing

K Front panel sealing to IP67 or IP69K

OPTION K - FRONT PANEL SEALING IP67



1 - internal membrane

external gasket

OPTION K - FRONT PANEL SEALING IP69K



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 LW1L-M1C70-A
 LW2L-A1C20M-GD
 LW2L-M1C20M-A
 60324L
 M22-D-R-GB0/K11
 M7E-HRN2

 67021K512
 67081K512X
 701PB580
 7190K101
 7199K101
 810K12910
 810KSV30B
 MML21EA2ADK
 MML21KA3ABK

 MML23KA3AC05K-001
 MML23KW3AA01W
 8418K2
 8442K3
 8450K1
 860K11911T01A
 861901
 861K11911T01A07

 861K13810T00A14
 861K13911
 8646AB6X718UL
 8646ABUL
 9001KXRK
 907AYY100
 PMHD155A1
 95-313.000

 9533CD4+U574+U4922
 95-414.000
 99-450.837
 99-453.837
 PV3H2B0NN-341
 1203MRA
 A22NZBGANGA
 A22NZBMMNGA

 A22NZBNANGA
 A22NZMPATRA
 A2PMA1X03EC56
 A3A-5123-02
 A3A-7140
 A3A-7340
 A3U-TMW-A2C-5M
 A595