

AV series

Tactile security pushbutton switches •
Ø 19 mm • momentary (NO)



DISTINCTIVE FEATURES

Tactile feedback

Illuminated or non-illuminated

Momentary (NO)

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 : 50 mA 24 VDC
- LED voltage and consumption : 2-color LED : 2 V (3 V max.) 20 mA
Other colors : 2 V (3 V max.) 10 mA
A resistor must be series-connected by the user**
- Initial contact resistance : 100 mΩ max.
- Insulation resistance : 1,000 MΩ 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

**Resistor value = $\frac{\text{supply voltage} - \text{LED forward voltage}}{\text{LED forward current}}$



GENERAL SPECIFICATIONS

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

The company reserves the right to change specifications without notice.



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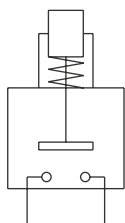


MATERIALS

- Case : PBT UL94-V0
- Terminals : brass, gold plated
- Contacts : gold plated dome
- Bushing and actuator : see following pages
- LED



ELECTRICAL FUNCTIONS



Function 3 (NO)



MOUNTING

- Panel cut-out : Ø 19.2 mm (.755)
- Min. pitch for matrix mounting :
30 mm x 30 mm (1.181x1.181)

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FLAT ACTUATOR - NON ILLUMINATED



Solder lug terminals
AV09C703D2

Screw terminals
AV09C703D9

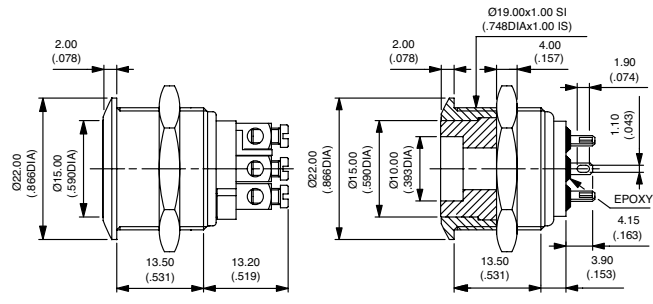
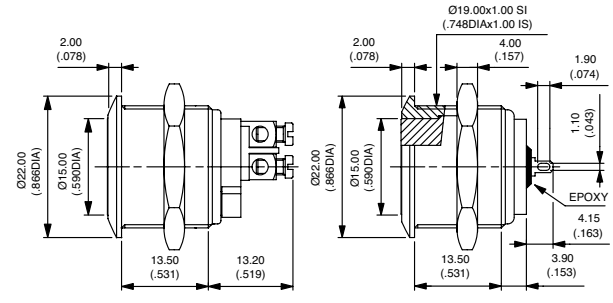
FLAT ACTUATOR - ILLUMINATED



Solder lug terminals
AV09C7L3D2

Screw terminals
AV09C7L3D9

Hex nut 22 (.866) across flats



BUSHING/ACTUATOR MATERIALS



NON-ILLUMINATED MODELS

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

ILLUMINATED MODELS

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

LED COLORS



Blank	No LED	6	Red
1	Blue	7	White
3	Green	9	Amber
5	Yellow	2	Red/green

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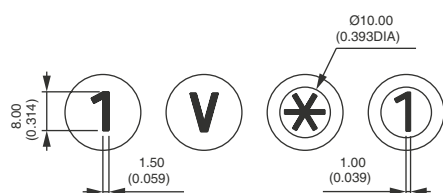
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MARKING

BASIC P/N

For **flat or curved actuator**.

- by laser etching on non-illuminated brass or stainless steel actuator.
- by hot stamping on thermoplastic insert (illuminated actuators)



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

Non-illuminated actuators :

0 (std)	Same as finish
2	Black

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

Illuminated actuators

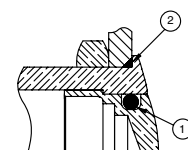
2	Black (on white)
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SEALING

BASIC P/N

Blank	No sealing
K	Front panel sealing to IP65

OPTION K



① - internal gasket

② - external gasket