

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
- 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

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

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 N ± 2N
- Torque : 1.5 Nm min. - 4 Nm max. applied to nut
- Panel thickness : 1 (.039) to 6 mm (.236) max.
- Hand soldering : 270 °C, 3 seconds max.



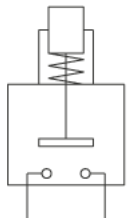
MATERIALS

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

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



ELECTRICAL FUNCTIONS



Function 3 (NO)



MOUNTING

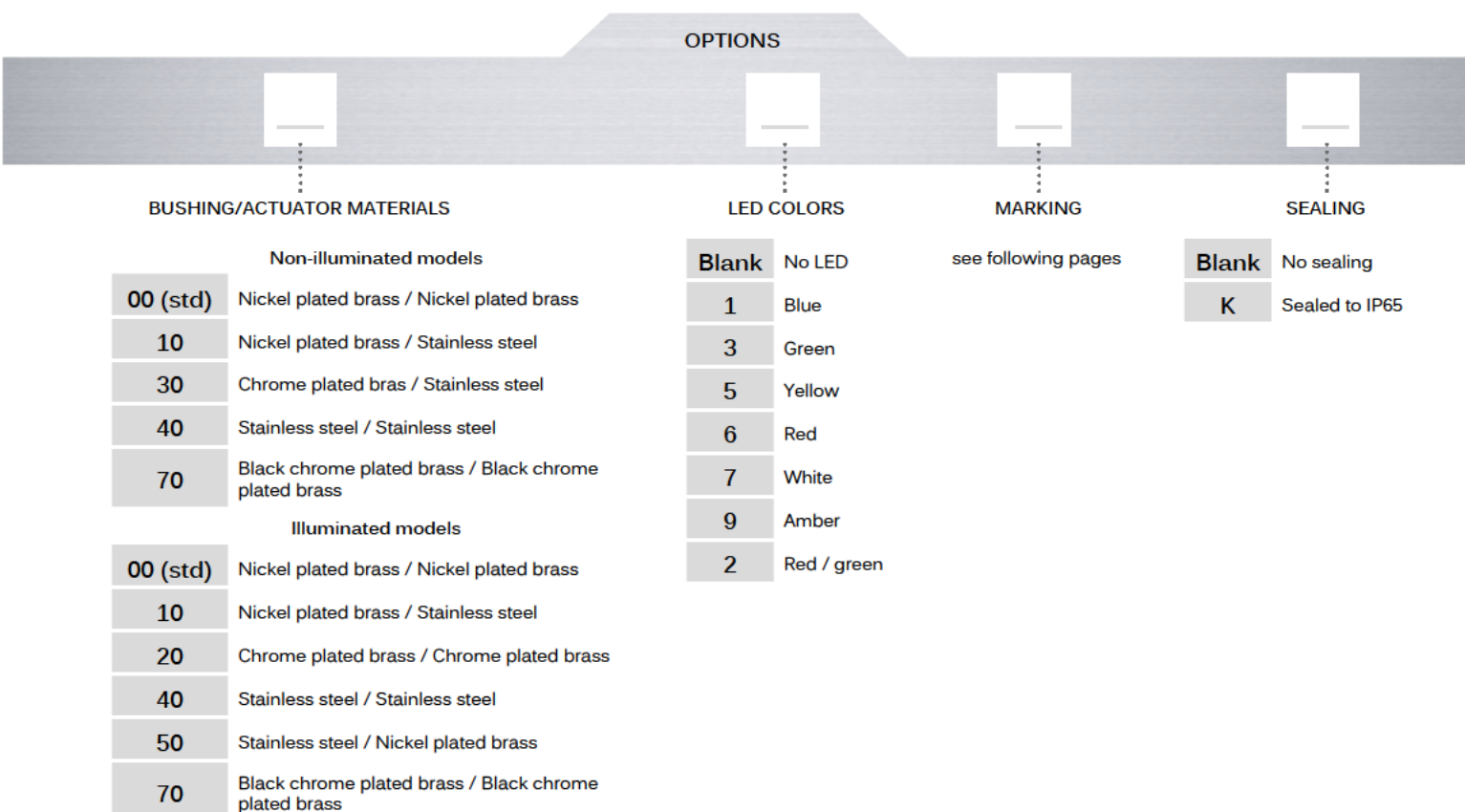
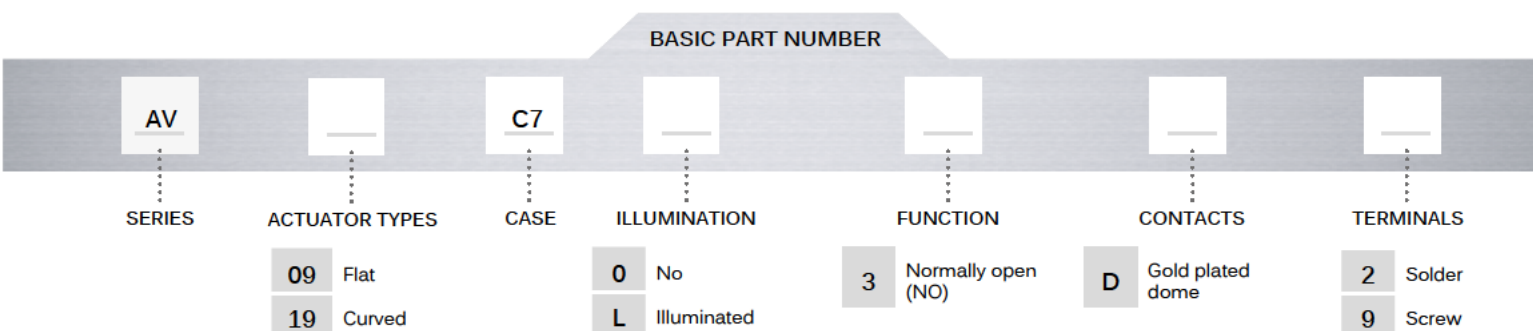
- Panel cut-out : Ø 19.2 mm (.755)
- Min. pitch for matrix mounting :
30 mm x 30 mm (1.181x1.181)

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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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FLAT ACTUATOR - NON ILLUMINATED



Solder lug terminals

AV09C703D2

Screw terminals

AV09C703D9

FLAT ACTUATOR - ILLUMINATED



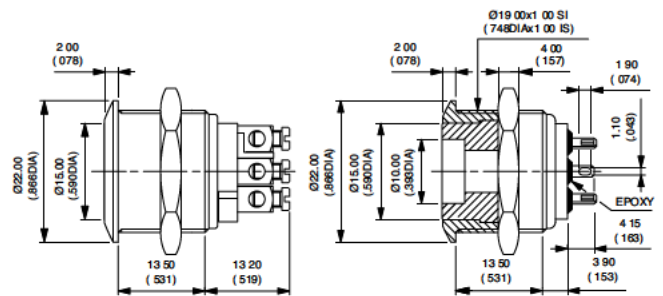
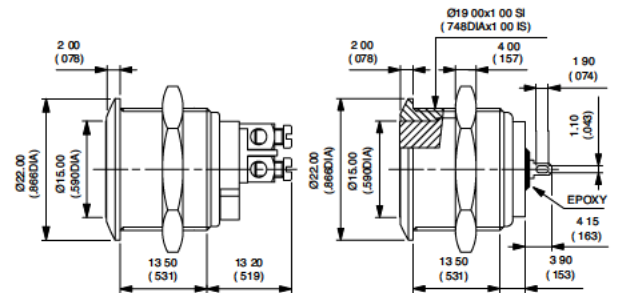
Solder lug terminals

AV09C7L3D2

Screw terminals

AV09C7L3D9

Hex nut 22 (.866) across flats



BUSHING/ACTUATOR MATERIALS

BASIC P/N

NON-ILLUMINATED MODELS

| CODE | BUSHING | ACTUATOR |
|----------|---------------------------|---------------------------|
| 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 | ACTUATOR |
|----------|---------------------------|---------------------------|
| 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

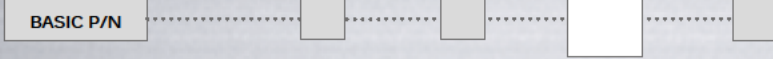
BASIC P/N

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

AV series

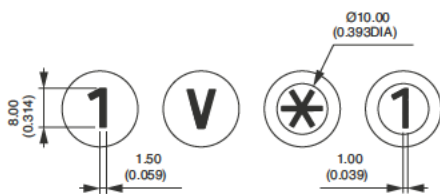
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MARKING



For flat or curved actuator.

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



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 |

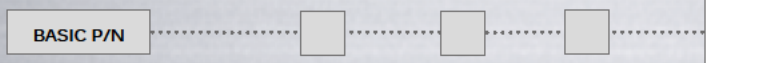
Note : a finished product supplied in version "0" cannot be modified to version «2».

Illuminated actuators

| | |
|---|------------------|
| 2 | Black (on white) |
|---|------------------|

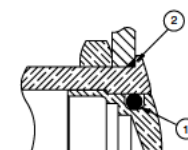
Select an option from each of the two paragraphs opposite (Type /Color).

SEALING



| | |
|-------|-----------------------------|
| Blank | No sealing |
| K | Front panel sealing to IP65 |

OPTION K



- ① - internal gasket
- ② - external gasket