

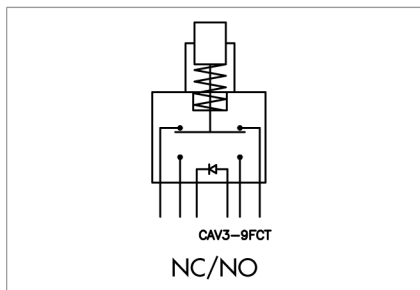


# AV series

**New!**

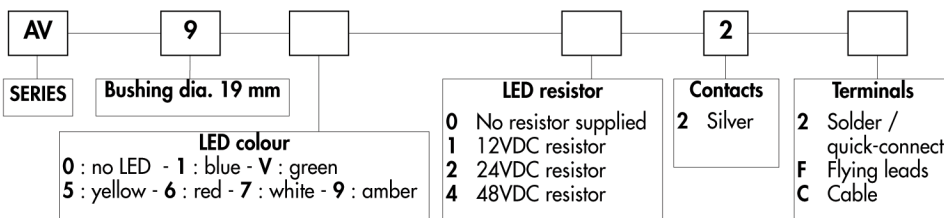
Security pushbutton switches Ø 19 mm (.748)

With illuminated ring - momentary (NC/NO)



### ORDER FORMAT

Options : see next page.



### SPECIFICATIONS

- Travel : 2 mm ± 0,3 mm (.003)
  - Max. current/voltage rating with resistive load : 1A 30VDC
  - LED voltage : 12VDC, 24VDC or 48VDC  
(If not supplied by APEM, a resistor must be series-connected by the user)\*\*
  - Initial contact resistance : 100 mΩ max.
  - Insulation resistance : 10 MΩ min. at 500VDC
  - Dielectric strength : 500 Vrms 50 Hz min. between terminals  
1.000 Vrms 50 Hz min. between terminals and frame
  - Electrical life : 250.000 cycles at full load
  - Operating force : 5N ± 2N
  - Torque : 5 Nm min. - 14 Nm max. applied to nut
  - Panel thickness : 1 (.039) to 6 mm (.236) max.
  - Mechanical life : 1.000.000 cycles
  - Operating temperature : -20°C to +55°C
  - Hand soldering : 350°C, 5 seconds max.
  - Packaging unit : flying lead/cable models : 1 piece - other models : 40 pieces
- \*\* Resistor value =  $\frac{\text{supply voltage} - \text{LED forward voltage}}{\text{LED forward current}}$

### MATERIALS

- Case : polyamide, glass filled
- Contacts : silver
- Bushing : see next page
- Actuator : see next page
- Elastomeric membrane : silicone
- LED

### CUT-OUT

- Panel cut-out : Ø 19,2 mm (.755)
- Min. pitch for matrix mounting : 30 mm x 30 mm (1.181x1.181)

### Flat actuator - solder lug terminals

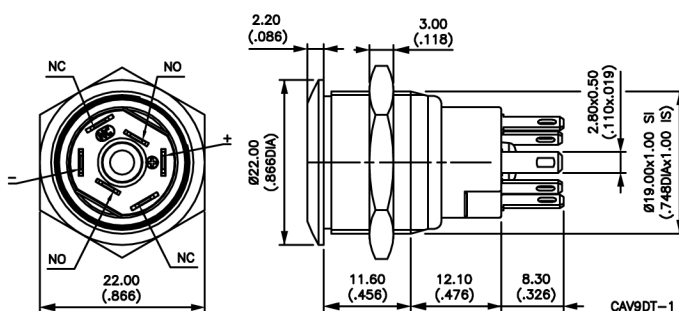
Hex nut 22 (.866) across flats



Illuminated (select LED colour above) \*  
**AV9•022**

Non-illuminated  
**AV90022**

\* No LED resistor supplied on this model.



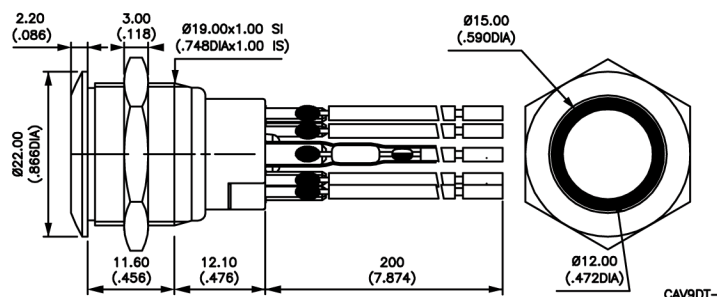
### Flat actuator - flying lead terminals

Hex nut 22 (.866) across flats



Illuminated (select LED colour & resistor above)  
**AV9••2F**

Non-illuminated  
**AV9002F**



# AV series

Security pushbutton switches Ø 19 mm (.748)

With illuminated ring - momentary (NC/NO)

**New!**



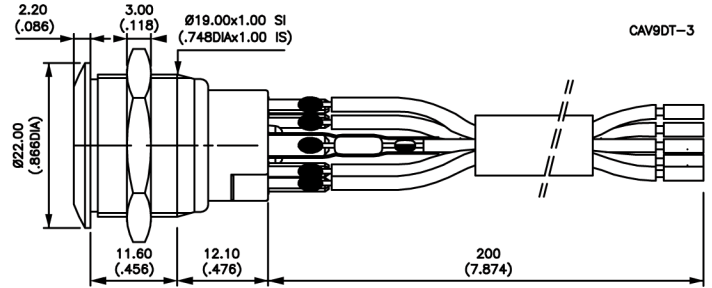
## Flat actuator - cable terminals

Hex nut 22 (.866) across flats

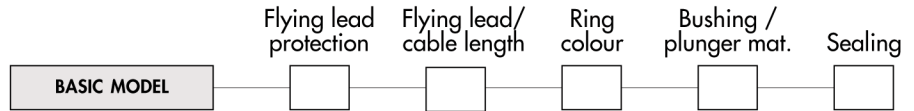


Illuminated (select colour & resistor)  
**AV9••2C**

Non-illuminated  
**AV9002C**



After selecting basic model No.,  
fill in last 5 boxes  
with desired options.



### FLYING LEAD PROTECTION

- 0 No protection and/or no flying leads
- 1 Heat-shrink sleeves
- 2 Tube + epoxy

### FLYING LEAD/CABLE LENGTH

- 000 No flying leads / no cable
- 020 Length 20 cm (standard)
- XXX Length in centimeters

### RING COLOURS

| CODE | COLOUR  | CODE | COLOUR           |
|------|---------|------|------------------|
| 1    | Blue    | 6    | Red              |
| 2    | Black * | 7    | Opal white (std) |
| 3    | Green   | 8    | Translucent      |
| 4    | Grey *  | 9    | Orange           |
| 5    | Yellow  |      |                  |

\* non-illuminated only

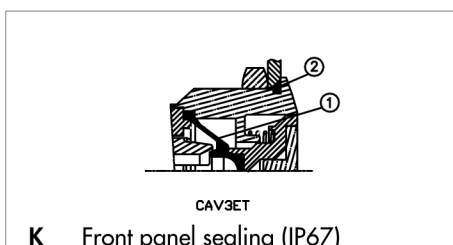
### BUSHING/PLUNGER MATERIALS

| CODE | BUSHING              | ACTUATOR             |
|------|----------------------|----------------------|
| 00   | Brass, nickel plated | Brass, nickel plated |
| 40   | Stainless steel 303  | Stainless steel 303  |
| 4A   | Stainless steel 304  | Stainless steel 304  |
| 4B   | Stainless steel 316  | Stainless steel 316  |

Other : on request.

### SEALING

**Blank** No sealing



**K** Front panel sealing (IP67)

- ① internal membrane
- ② external gasket