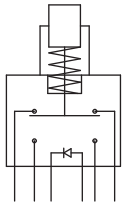
MODEL STRUCTURE

AV series

New!

Security pushbutton switches Ø 19 mm (.748)

With illuminated ring - momentary (NC/NO)



NC/NO

ORDER FORMAT

Options : see next page.

AV	9			2	
SERIES	Bushing dia. 19 mm	LED colour	LED resistor	Contacts	Terminals

LED colour
0 : no LED - **1** : blue - **V** : green
5 : yellow - **6** : red - **7** : white - **9** : amber

LED resistor
0 No resistor supplied
1 12VDC resistor
2 24VDC resistor
4 48VDC resistor

Contacts
2 Silver

Terminals
2 Solder / quick-connect
F Flying leads
C Cable

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

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)

To order a product, select a basic model below and add the desired LED colour and voltage. Then select the desired options on next page.

B

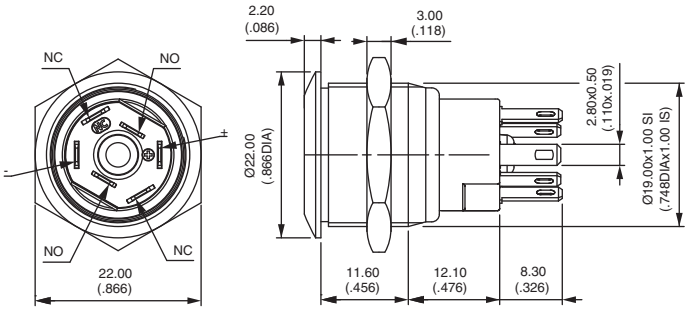
Flat actuator - solder lug terminals

Hex nut 22 (.866) across flats



Illuminated (select LED colour above) *
AV9•022

Non-illuminated
AV90022



* No LED resistor supplied on this model.

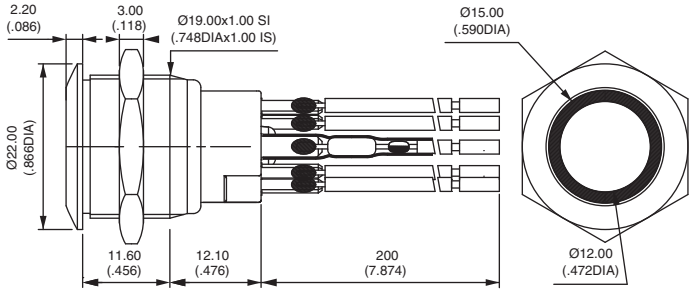
Flat actuator - flying lead terminals

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)

New!

OPTIONS

With illuminated ring - momentary (NC/NO)

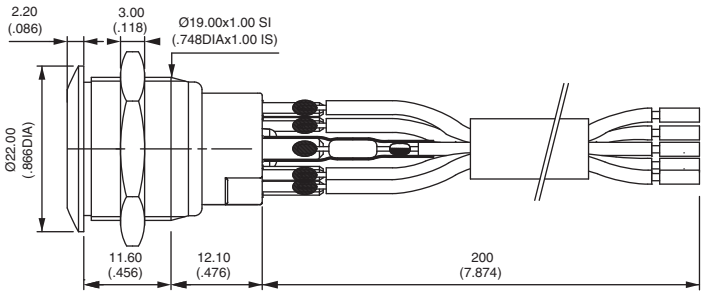
Flat actuator - cable terminals

Hex nut 22 (.866) across flats



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

Non-illuminated
AV9002C



B

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

BASIC MODEL	Flying lead protection	Flying lead/ cable length	Ring colour	Bushing / plunger mat.	Sealing

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