AV SERIES SECURITY PUSHBUTTON SWITCHES

.748" (19mm) bushing diameter

SPECIFICATIONS

Contact ratings: Max. resistive loads: Q - 6 A 125 VAC.

3 A 250 VAC or 7 A 30 VDC.

B - 0.4 Volt-Amps max at 20 V max.

Initial contact resistance: 20 m Ω max. at 3 VDC, 0.1 A Insulation resistance: 200,000 megohms minimum be-

tween terminals & case ground.

Dielectric strength: 1500 VAC min. between terminals

and case ground.

Electrical life: 60,000 cycles min.

Operating temperature range: -30°C to +85°C

For additional specifications: See 800 Series switches

FEATURES

- .755" (19 mm) dia. models.
- SPDT and DPDT with NO & NC momentary action.
- Standard sealing protection per IP54.
- Optional sealing protection per IP65.
- Extremely rugged and durable.

MATERIALS

Contacts: Q - Coin silver for power & UL models. B - Gold over

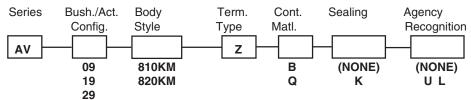
nickel over brass for dry circuit models. Bushing & Actuator: Nickel plated brass (std'd)

Case: Diallyl Phthalate Hex. Mounting Nut: Nickel plated brass

ORDER FORMAT:

For complete model no., fill in boxes with selected op-tions shown below. Example of complete model no. -

AV19810KMZQKUL



For mushroom cap (49) only: Add color code at end of above model number - 0 for natural or 6 for red (consult factory for other colors).

1/2-20 UNF

Solder lug terminals - (Z)

1.303 (33.10)

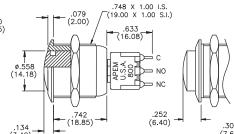
19mm

ø.866 (22.00)

Bushing/Actuator configuration

39

49



19 curved Act. & Bushing (standard)



29 extended Act. 39 threaded Act. & curved bushing & curved bushing

.513 (13.03) 49 thd'd Act. with mushroom cap & curved bushing

Rear view (820 shown)



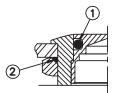
09 flat Act. &

curved Bushing

AV19820KMZQUL (Model shown)

Schematic

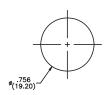
Blank - no sealing - meets IP54 (std'd)



(1) Internal seal & (2) front panel seals meet IP65

> Sealing **Mounting Hole**

Min. dimensions for matrix mounting: .984" (25mm) x .984" (25mm).



Notes to Order Format:

810KM is SPDT

.370 (9.40)

820KM is DPDT

UL option available only with Q option. UL rating: 6 A 125 VAC or 3 A 250 VAC (75% power factor). UL file E66367.

Epoxy terminal seal is standard on all models. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

AV SERIES SECURITY PUSHBUTTON SWITCHES

.748" (19mm) bushing diameter

SPECIFICATIONS

Contact ratings: Max. resistive loads: Q - 6 A 125 VAC,

3 A 250 VAC or 7 A 30 VDC.

B - 0.4 Volt-Amps max at 20 V max.

Initial contact resistance: $5 \text{ m}\Omega$ max. at 3 VDC, 0.1 A Insulation resistance: 200,000 megohms minimum be-

tween terminals & case ground.

Dielectric strength: 2000 VAC min. between terminals

and case ground.

100,000 cycles min. Electrical life:

Operating temperature range: -30°C to +85°C

For additional specifications: See PB Series switches

FEATURES

- .755" (19 mm) dia. models.
- Single pole double throw NO & NC momentary action.
- Standard sealing protection per IP54.
- Optional sealing protection per IP65.
- Extremely rugged and durable.

MATERIALS

Contacts: Q - Coin silver for power & UL models. B - Gold over

nickel over brass for dry circuit models.

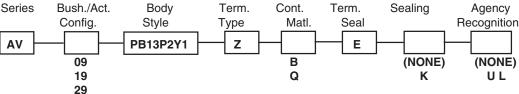
Bushing & Actuator: Nickel plated brass (std'd)

Case: Diallyl Phthalate Hex. Mounting Nut: Nickel plated brass

ORDER FORMAT:

For com-plete model no., fill in boxes with selected options shown below. Example of complete model no. -

AV19PB1-3P2Y1ZQEKUL



For mushroom cap (49) only: Add color code at end of above model number - 0 for natural or 6 for red (consult factory for other colors).

Solder lug terminals -

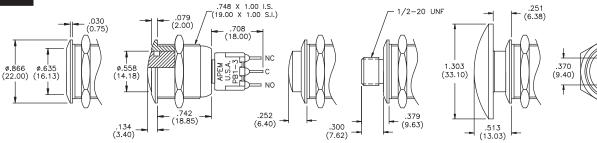
19mm

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Bushing/Actuator configuration

39

49



09 flat Act. & curved Bushing 19 curved Act. & Bushing (standard)

29 extended Act. & curved bushing & curved bushing

39 threaded Act.

49 thd'd Act. with mushroom cap & curved bushing

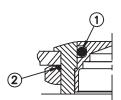
Rear view all models



AV19PB1-3P2Y1ZQE (Model shown)



Blank - no sealing (std'd)



1 Internal seal & (2) front panel seals meet IP65

Sealing

Min. dimensions for matrix mounting: .984" (25mm) x .984" (25mm).



Mounting Hole

Notes to Order Format:

UL option available only with Q option. UL rating: 6 A 125 VAC or 3 A 250 VAC (75% power factor). UL file E66367.

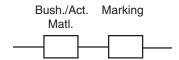
E option is epoxy terminal seal - standard.

AV SERIES SECURITY PUSHBUTTON SWITCHES

C

Options - Bushing/Actuator materials and marking

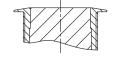
After selecting basic model number from previous pages of AV Series Security Pushbutton switches, fill in indicated boxes with desired options below.

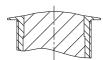


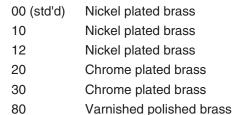
BUSHING/ACTUATOR MATERIAL Replace **00** with one of the following codes.

Code

models with flat or curved metal actuator







Bushing

Actuator Nickel plated brass Stainless steel Chrome plated brass Chrome plated brass Stainless steel Varnished polished brass

models with flat thermoplastic actuator





Code Bushing Actuator

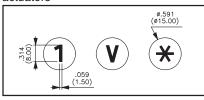
0X (std'd) Nickel plated brass Nickel plated brass 2X Nickel plated brass Stainless steel X8 Nickel plated brass Chrome plated brass

Replace X above with color: 1 blue, 2 black, 3 green, 4 gray, 5 yellow, 6 red, 7/1 white, 9 orange

MARKING Select an option from each of the two tables. Consult factory for special symbols.

number 0.

For models with flat actuator only. Not available on model AV031202C0. Marking method: by engraving on metal actuators, (brass only) by hot stamping on thermoplastic actuators



MARKING	
Code	Mark
0 to 9	Numbers 0 to 9
Χ	Symbol *
Υ	Symbol #
A to N	Letters A to N
P to W	Letters P to W
0	Letter O
Letter O: same code and design as	

MARKING COLOR	
Code	Color
Brass actuator	
0 (std'd)	Same as finish
2	Black
Note: Code '0' finish cannot be	
modified to code '2'.	
Thermoplastic actuator	
2	Black
7	White