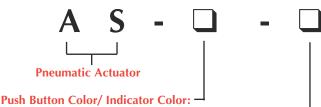


Air-2-Electric® Switches

Features

- Switch modules available normally open or normally closed
- Wide range of mounting configurations available
- Actuators with or without an air pressure indicator
- Standard manual override
- Interfaces pneumatic signals with manual signals, via the same devices, saving space and cost, adding safety and convenience
- 4 bright colors for visibility and operator recognition
- Can actuate as many as 12 switches
- Low operating pressure requirements: approx. 10 psig

Air-2-Electric® Pneumatic **Actuators Numbering System**

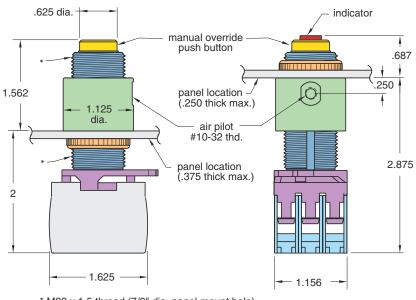


BG - Black/Green BR - Black/Red BY - Black/Yellow BW - Black/White BN - Black/No Indicator GN - Green/No Indicator RN - Red/No Indicator YN - Yellow/No Indicator

Blank - Pneumatic Actuation with Manual Override (Standard)

A - Pneumatic Actuation Only (Manual Override Blocked)

Air-2-Electric® System Dimensions



* M22 x 1.5 thread (7/8" dia. panel mount hole)

Medium: Air

Operating Pressure: Approx. 10 psig plus 1.5 psig per switch

Max. Operating Pressure: 150 psig

Temperature Range: 32° - 140° F

Port: 10-32

Construction:

Activator Housing - Nickel-plated brass, Anodized aluminum, Nylon Internal Parts - Delrin® Seals - Buna-N rubber Mounting - M22 x 1.5 male thread for panel mount through 7/8" diameter hole

Air-2-Electric® Pneumatic Actuators



Push Button

Manual Override AS-BN - Black* AS-GN - Green **AS-RN** - Red

Air Actuation Only AS-BN-A - Black AS-GN-A - Green AS-RN-A - Red **AS-YN** - Yellow AS-YN-A - Yellow

* Push button color



Push Button with Indicator

Manual Override Air Actuation Only AS-BG-A - Green AS-BG - Green** **AS-BR** - Red AS-BR-A - Red **AS-BY - Yellow** AS-BY-A - Yellow AS-BW - White AS-BW-A - White

** Indicator Color

AIR-2-ELECTRIC® SWITCHES

AS-BG

AS-BR

AS-BG-A

AS-BR-A

AS-BY

AS-BY-A

AS-BW-A

AS-BW

AS-BN

AS-BN-A

AS-GN-A

AS-GN

AS-10



AS-RN

AS-YN

AS-RN-A

AS-YN-A



The Air-2-Electric system can handle multiple switches; using line voltage, as many as 12 switches can be actuated. Switch modules are available in normally open or normally closed models. Air-2-Electric actuators are available with a number of feature options such as a manual override and an air pressure indicator and in a variety of colors.

Air Switches

AS-01 - Normally Closed AS-10 - Normally Open



Mounting Clips

The single clip mounts one switch to the pneumatic actuator. The front clip mounts up to three switches. Add side clips to mount up to five switches. For six to twelve switches, add a 2nd row clip to the front clip.

Note: The 2nd row clip will not mount where side clips are attached.



AS-31 - Single Clip

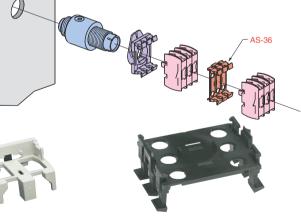


AS-33 - Front Clip



(included with actuators)

AS-35 - Side Clip



AS-36 - 2nd Row Clip

SWITCH MODULES AS-01 AND AS-10 Electrical and Mechanical Characteristics													
Electrical Performance								Voltage		Motor	Horsepo	wer	
AC	Nom. Operating Voltage (VAC) (50-60 Hz)			110	220		440	110	Single phase		0.5		
	Nom. Operating Current (A)			8	6.5		3.5	220	Single phase	1.0			
DC	Nom. Operating Voltage (VDC)				12			220/440	3-phase	3.0			
	Nom. Operating Current (A)				4 1			440/480	3-phase	5.0			
Electrical Life 220		V (50-60 Hz)	App	rovals	_								
Oper	Operating Current (A) 6 2		2		(SA	(Ui	BU	(\$) (F) (D)	(N)	(S)		
No. o	No. of Operations 1×10^6 3×10^6			'		•••			•	9	/ 144		
Mech	Mechanical Life 3 x 10 ⁶ cycles			Con	Connection Screw terminals suitable for field wiring # 14-12 AWG								
WARNING Caution should be taken to assure the conformation of all applicable standard codes and installation procedures. Proper design engineering procedures													

should be used to guard against the accidental actuation of the switches. Manual overrides or other precautionary measures should be considered.



Pressure Actuated Switches



Medium: Air

Inlet Pressure: 5 - 150 psig **Temperature Range:** 32° - 230° F **Pilot Port:** #10-32, 1/8 NPT, M5

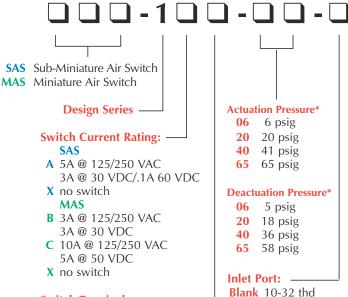
Mounting: External thread and nut for panel, bracket,

or bulkhead mounting,

5/8 - 32 pressure actuated 15/32-32 manually operated

Accuracy: Actuation and deactuation pressures listed are nominal values. Each has a tolerance of ±12%

or 1 psi whichever is greater



Switch Terminals: -

SAS: 0 no switch

MAS: 0 no switch

1 110 series Q.C.

2 187 series Q.C.

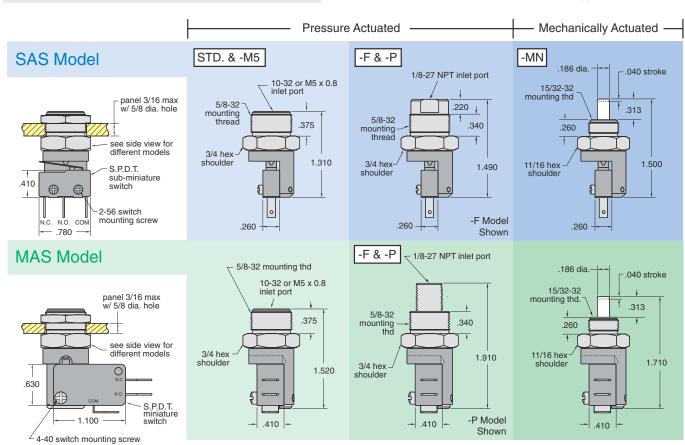
3 screw terminals

*Nominal value +/- 12% or 1psi, whichever is greater when used with Clippard switches

F 1/8 NPT female

P 1/8 NPT male

M5 M5 x 0.8 thd



ELECTRIC SWITCHES





Single pole, double throw snap-action electrical switch

.562 - - .906 mounting holes

.781

468

1.937

-.656

.406



- .687 -



Rating D.C.: 125 volts - 0.5 amperes 250 volts - 0.25 amperes

Mounting: 15/32-32 thread; nut and lockwashers furnished, also two .140" dia. mounting holes in body

Temperature Range: 32° to 230° F

Approvals: UL and CE

Stem Travel: 1/8"



1.562

15/32-32 thd.

.125 stroke

.250

Type: Terminal cover for ES-1 (optional)

Note: Specify ES-1GP for gold plated contact.

5100-3 NO 5100-3 NC

Pneumatic electric switch



Electrical Rating: 60 ma. AC resistive 40 ma. DC resistive @120 volts

Switching Speed: 125 Hz, normally open

Actuating Pressure: 3" H₂O 10% pressure vacuum, or DP

Maximum Pressure: 8 psig (continuous)

Construction: ABS plastic case gold plated contacts natural rubber diaphragm

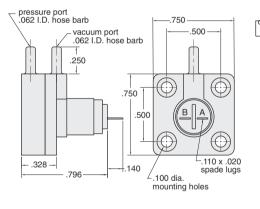
Options: 5100 N.O. contacts normally open 5100 N.C. contacts normally closed

Weight: 4 grams

Temperature Range: 32° to 230° F

Use: for interfacing fluidic or other low pressure air signals with electronic circuitry dual inputs operates on pressure, vacuum, or differential pressure signals





Did you know...

Clippard Instrument Laboratory, Inc. began as a manufacturer of radio coils and test instruments in 1941.

