## 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 ${ }^{\oplus}$ Pneumatic Actuators Numbering System



Blank - Pneumatic Actuation with

## Air-2-Electric ${ }^{\oplus}$ System Dimensions

A - Pneumatic Actuation Only
(Manual Override Blocked)


* 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: $32^{\circ}-140^{\circ} \mathrm{F}$
Port: 10-32
Construction:
Activator Housing - Nickel-plated brass, Anodized aluminum, Nylon Internal Parts - Delrin ${ }^{\text {® }}$
Seals - Buna-N rubber
Mounting - M22 $\times 1.5$ male thread for panel mount through 7/8" diameter hole

## Air-2-Electric ${ }^{\oplus}$ Pneumatic Actuators



Push Button
Manual Override
AS-BN - Black*
AS-GN - Green
AS-RN - Red
AS-YN - Yellow

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

* Push button color



## Push Button

 with IndicatorManual Override Air Actuation Only
AS-BG - Green** AS-BG-A - 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 ${ }^{\oplus}$ Air Switches and Mounting Clips

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 2 nd 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


AS-35 - Side Clip

| AS-BG | AS-BY | AS-BN | AS-RN |
| :--- | :--- | :--- | :--- |
| AS-BG-A | AS-BY-A | AS-BN-A | AS-RN-A |
| AS-BR | AS-BW | AS-GN | AS-YN |
| AS-BR-A | AS-BW-A | AS-GN-A | AS-YN-A |




Medium: Air
Inlet Pressure: 5-150 psig
Temperature Range: $32^{\circ}-230^{\circ} \mathrm{F}$
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 $\pm 12 \%$ or 1 psi whichever is greater


SAS Sub-Miniature Air Switch MAS Miniature Air Switch

Design Series
Switch Current Rating: SAS
A 5A @ 125/250 VAC $3 \mathrm{~A} @ 30 \mathrm{VDC} / .1 \mathrm{~A} 60 \mathrm{VDC}$
X no switch MAS
B 3A @ 125/250 VAC 3A @ 30 VDC
C 10A @ 125/250 VAC 5A @ 50 VDC
X no switch
Switch Terminals:
SAS: 0 no switch
1110 series Q.C.
MAS: 0 no switch
2187 series Q.C.
3 screw terminals

Actuation Pressure*
$06 \quad 6$ psig
2020 psig
$40 \quad 41$ psig
6565 psig
Deactuation Pressure*

| $\mathbf{0 6}$ | 5 psig |
| :---: | :---: |
| $\mathbf{2 0}$ | $\mathbf{1 8} \mathrm{psig}$ |
| $\mathbf{4 0}$ | 36 psig |
| $\mathbf{6 5}$ | 58 psig |

Inlet Port:
Blank 10-32 thd

> F $1 / 8 \mathrm{NPT}$ female
> P $1 / 8 \mathrm{NPT}$ male
> M5 M5 0.8 thd
*Nominal value $+/-12 \%$ or 1 psi , whichever is greater when used with Clippard switches


## ES-1



## 15601



Stem Travel: $1 / 8^{\prime \prime}$
Rating A.C.: 120 volts -15 amperes 240 volts - 15 amperes 480 volts - 15 amperes

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: $32^{\circ}$ to $230^{\circ} \mathrm{F}$
Approvals: UL and CE

Type: Terminal cover for ES-1 (optional) Note: Specify ES-1GP for gold plated contact.

> 5100-3 NO 5100-3 NC


Electrical Rating: 60 ma . AC resistive 40 ma . DC resistive @120 volts
Switching Speed: 125 Hz , normally open
Actuating Pressure: $3^{\prime \prime} \mathrm{H}_{2} \mathrm{O} 10 \%$ 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: $32^{\circ}$ to $230^{\circ} \mathrm{F}$
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.


