

Multiple Channel Isolated Switch

| CONTROL VOLTAGE | 24 or $120 \mathrm{VAC} \pm 10 \%, 50 / 60 \mathrm{~Hz}$ |  |
| :---: | :---: | :---: |
| CONTROL SWITCH | Open Circuit Voltage | 6.2 VDC |
|  | Short Circuit Current | $10 \mu \mathrm{Amps}$ |
| RESPONSE | Operate 6 mSEC (Approx.) |  |
| TIMES | Release $\quad 2.5 \mathrm{~ms}$ | 6 mSEC (Approx.) 2.5 mSEC (Aprox.) |
| POWER REQUIRED |  |  |
| DUTY CYCLE | Continuous |  |
| CONTACT RATING | SPST-N.O., 5 amps per channel @ 24 or 120 VAC, Resistive; 278 VA, Inductive |  |
| ISOLATION | 2500 Volts, Input to Output |  |
| LIFE EXPECTANCY | Mechanical 20 Million Operations |  |
|  | Electrical 50,000 Operations @ Rated Load |  |
| INDICATORS | On When Corresponding Output is On |  |
| TEMPERATURE | Operate $-4^{\circ}$ to <br> Storage $-40^{\circ}$ | $1^{\circ} \mathrm{F}\left(-20^{\circ}\right.$ to $\left.+55^{\circ} \mathrm{C}\right)$ |
| RATING |  | $85^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.+85^{\circ} \mathrm{C}\right)$ |
| ENCLOSURE | Style "E" Lexan ${ }^{\text {® }}$ Surface Mounted |  |
| TERMINATIONS | (12) \#8-32 Screw terminals |  |
| WEIGHT | 8 oz. |  |

## OPERATION

The ISO/ISL Series multiple channel devices are used to provide a safe and reliable means of controlling loads from hazardous locations without releasing sufficient energy under normal or abnormal conditions to cause ignition of a flammable or combustible atmospheric mixture while in its most easily ignited concentration. An isolated output turns on when the corresponding control switch input from the hazardous location is activated. When using normally closed control switch inputs, a jumper should be installed between terminals 1 and 2. Normally open control switch inputs do not require the optional jumper. When the non-latching ISO Series control switch input is activated, its corresponding output turns on. When the control switch input is deactivated, its output turns off. When the latching ISL Series control switch input 2,3 or 4 is activated, its corresponding output turns on. When control switch 2,3 or 4 is deactivated, its corresponding output remains latched on as long as control switch input 1 is activated; otherwise it turns off immediately. Control switch input 1 also controls output 1 just as in the non-latching ISO Series.

## DIMENSIONS (INCHES)



## ORDERING INFORMATION

| MODEL <br> NUMBER | CONTROL <br> VOLTAGE | CHANNELS |
| :---: | :---: | :---: |
| ISL-24-AAE | 24 VAC | 2 |
| ISL-24-ABE | 24 VAC | 3 |
| ISL-24-ACE | 24 VAC | 4 |
| ISL-120-AAE | 120 VAC | 2 |
| ISL-120-ABE | 120 VAC | 3 |
| ISL-120-ACE | 120 VAC | 4 |
| ISO-24-AAE | 24 VAC | 2 |
| ISO-24-ABE | 24 VAC | 3 |
| ISO-24-ACE | 24 VAC | 4 |
| ISO-120-AAE | 120 VAC | 2 |
| ISO-120-ABE | 120 VAC | 3 |
| IS0-120-ACE | 120 VAC | 4 |



1. Maximum distance between unit and switch contact is 1000 feet.
2. All intrinsically safe wiring shall be separated from non-intrinsically safe wiring. Refer to article 504 of the National Electrical Code ANSI/NFPA 70 for installation of intrinsically safe wiring.
3. Switch contact shall be any non-energy storing or generating mechanical switch type device containing no capacitance or inductance.

CONTROL DRAWING 192

NOTES:

2. All intrinsically safe wiring shall be separated from non-intrinsically safe wiring. Refer to article 504 of the National Electrical Code ANSI/NFPA 70 for installation of intrinsically safe wiring. mechanical switch type device containing no capacitance or inductance.
4. Unit must be installed with DE socket P/N PF083A.


NOTES:

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non-intrinsically safe wiring. Refer to article 504 of the
National Electrical Code ANSI/NFPA 70 for installation of intrinsically safe wiring.
3. Switch contact shall be any non-energy storing or generating mechanical switch type device containing no capacitance or inductance.
4. Wiring to terminals $5,6,11$ and 12 is omitted for models with the suffix AAE.
5. Wiring to terminals 6 and 12 is omitted for models with the suffix $A B E$
