## Non-Metallic Housing

The Advance Controls, Inc. Key Operated Safety Switch with Solenoid Release utilizes a solenoid and removable stainless steel key to provide a positive means to turn "Off" control power should an access panel, door, gate, guard, etc. be opened. The switch denies access to the controlled area until the operator electrically releases the key, thus protecting areas where access must be strictly controlled. Examples are equipment that has a large mechanical inertia, high temperature, cannot stop in mid cycle, other areas that cannot be immediately entered or where

## Ordering Information

Switches are furnished standard with 90 Degree Mounting Key. Other key styles are available, see Accessories for the FS series switches, page 200.

the machine cycle cannot be interrupted. Since the safety switch contacts can be closed only when the key is installed in the switch, the machine cannot be restarted until the door, gate, guard, etc., is closed, thus re-establishing the protection around the machine.

## Solenoid Operated Contacts:

Solenoid releases Key and transfers certain contacts.

## Key Operated Contacts:

Solenoid releases Key - Key transfers certain contacts.
"FS" SERIES De-Energized Solenoid to retain key:
(energize solenoid to remove key)

| CONTACT OPERATION |  | CATALOG <br> NUMBER | $\begin{aligned} & \text { WT } \\ & \text { Lbs } \end{aligned}$ | $\begin{aligned} & \text { IST } \\ & \text { PRICE } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| SOLENOID | KEY |  |  |  |
| $1 \mathrm{NO}+1 \mathrm{NC}$ |  | 116072 | 0.7 | \$344 |
| $1 \mathrm{NO}+2 \mathrm{NC}$ |  | 117842 | 0.7 | \$362 |
| $1 \mathrm{NO}+1 \mathrm{NC}$ | 1 NC | 117843 | 0.7 | \$362 |
| 2 NC |  | 116076 | 0.7 | \$349 |
| 3 NC |  | 117844 | 0.7 | \$367 |
| 2 NC | 1 NC | 117860 | 0.7 | \$367 |
| 1 NC | 2 NC | 121071 | 0.7 | \$367 |

"FR" SERIES Energized Solenoid to retain key:
(de-energize solenoid to remove key)

| CONTACT OPERATION |  | $\begin{aligned} & \text { Githiog } \\ & \text { NUMBER } \end{aligned}$ | $\begin{aligned} & \text { WT } \\ & \text { Lhs } \end{aligned}$ | $\begin{aligned} & \text { IIST } \\ & \text { PRIIGE } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| Solenoid | KEY |  |  |  |
| $1 \mathrm{NO}+1 \mathrm{NC}$ |  | 116080 | 0.7 | \$344 |
| $1 \mathrm{NO}+2 \mathrm{NC}$ |  | 117845 | 0.7 | \$362 |
| $1 \mathrm{NO}+1 \mathrm{NC}$ | 1 NC | 117846 | 0.7 | \$362 |
| 2 NC |  | 116084 | 0.7 | \$349 |
| 3 NC |  | 117847 | 0.7 | \$367 |
| 2 NC | 1 NC | 117861 | 0.7 | ${ }^{\text {s }} 367$ |
| 1 NC | 2 NC | 121072 | 0.7 | \$367 |

Note: Switch key can be removed during a power failure.
Technical Specifications - Contact Rating

| ITEM | AC RATINGS | DC RATINGS |  |  |
| :---: | :---: | :---: | :---: | :---: |
| UL /CSA | 10 Amp A600 |  | Q300 (UL508) |  |
| IEC | AC15 | DC13 |  |  |
| VOLTAGE | 250 | 400 | 500 | 24 |

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Positive forced break double contacts.
Maximum contact operating voltage:
600 VAC, 300 VDC (UL508)
Short circuit protection: 10 Amps (max) fuse
Solenoid Voltage: 22-30 Volts AC / DC
Solenoid Current: Inrush = 56 VA(0.1 sec)
Holding $=20$ VA
Electrically isolated contacts allow different contact voltages.

