Installation Instructions for Appleton™ Contender® EDS-EDSC Series
1- and 2-Gang Control Assemblies for Use In Class I, Group C and D,
Class II, Group E, F, and G, and CLASS III, Division 1 and 2 Hazardous Locations

**WARNING:** Electrical power must be turned OFF before and during installation and maintenance. Failure to follow safety instructions may cause ignition of hazardous atmospheres resulting in serious personal injury and/or property damage.

**CAUTION:** Care must be taken to prevent the ground surface of the bodies and covers from becoming scratched, dented, or otherwise damaged as this could affect the explosion-proof features of these assemblies. Appleton control assembly covers and devices are UL Listed for use with Appleton listed control assembly bodies, and are UL Classified for use with UL Listed Crouse-Hinds bodies shown below.

**ASSEMBLY:** Check ground surfaces of all components for foreign material prior to assembly. Surfaces must be clean and undamaged. Install the desired cover and device assembly on the body. Secure the cover assembly to the body by tightening the screw provided with the cover.

The following cover with device and combination of cover and device are UL Listed control assemblies when assembled to Appleton bodies and are UL Classified for use with the Crouse-Hinds bodies listed below. These combinations are suitable for use in Class I, Group C and D; Class II, Group E, F, G, and Class III hazardous locations.

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<table>
<thead>
<tr>
<th>COMBINATION OF COVER WITH DEVICE</th>
<th>ELECTRICAL RATING</th>
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<tbody>
<tr>
<td><strong>PUSHBUTTON 600 VAC MAX. HEAVY PILOT DUTY</strong></td>
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<tr>
<td>EDKB-U3</td>
<td>YES</td>
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<tr>
<td>EDKB-J3</td>
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<td>EDK-J1U2</td>
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<tr>
<td>EDK-2J1</td>
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<td>EDK-J1**</td>
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<td>EDK-PC120</td>
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<tr>
<td>EDK-PC277</td>
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</tbody>
</table>

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**WARNING:** To prevent ignition of Group C and D atmospheres, seals must be installed within five (5) feet on each conduit opening.

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<table>
<thead>
<tr>
<th>APPLETON 1-GANG BODY</th>
<th>APPLETON 2-GANG BODY</th>
<th>CROUSE-HINDS 1-GANG BODY</th>
<th>CROUSE-HINDS 2-GANG BODY</th>
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<td>EDS171</td>
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MAINTAINED CONTACT PUSHBUTTON SWITCH AND PILOT LIGHT

**1. Pilot light must be installed in 3/4" 14 NPSM opening.**

**2. Pushbutton switch must be installed in 1/2" 14 NPSM opening.**

**3. Unscrew button and cover assembly from collar. Remove set screw from collar. Use a 1/2" nut driver to remove shaft bushing and shaft from push assembly. (Set these parts aside for later reassembly in step 5.)**

**4. Thread Push Button from inside of cover until front of pushbutton is flush with face of cover.**

**5. Insert shaft into bushing. Put shaft bushing assembly thru hole in collar and thread bushing into pushbutton opening. Hold pushbutton from inside of cover to prevent it from turning. If a Lockout Guard is used, put shaft bushing assembly thru collar and lockout.**

**6. Tighten shaft bushing with a 1/2" nut driver to "lock" pushbutton in place, thread set screw onto collar along side of hex flat of shaft bushing.**

**7. Thread Button and cover assembly onto collar until fully seated.**

**8. Check pushbutton switch and pilot light electrically and mechanically for proper operation.**

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**SINGLE PUSHBUTTON SWITCH WITH ONE BUTTON GUARD**

**1. Single pushbutton with one button guard must be installed in 3/4" 14 NPSM opening.**

**2. Remove set screw from guard, use a 1/2" nut driver to remove shaft bushing and shaft from pushbutton assembly (set aside for later assembly).**

**3. Thread pushbutton from inside of cover until front of pushbutton is flush with face of cover.**

**4. Insert shaft into bushing. Put shaft bushing assembly thru hole in guard and thread bushing into pushbutton opening. Hold pushbutton from inside of cover to prevent it from turning.**

**5. Tighten shaft bushing with a 1/2" nut driver to "lock" pushbutton switch in place. Thread set screw onto collar along side of hex flat on shaft bushing.**

**6. Press Weather Boot and Button assembly in shaft hole until fully seated.**

**7. Check pushbutton switch and pilot light electrically and mechanically for proper operation.**

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**DOUBLE PUSHBUTTON WITH TWO BUTTON GUARD**

**1. Double Pushbutton assembly, with two button guard must be installed into two 1/2" 14 NPSM openings (approximately 1-1/6" apart).**

**2. Proceed as in steps (2) through (6) above. Be sure insulator is in place.**

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**CAUTION:** When checking pushbutton electrically guard or collar must be installed in the intended manner as shown.

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Installation of Pushbutton Switch and Pilot Light

**Explosion-Proof and Dust-Ignition-Proof**

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**Contactor must be installed in the intended manner as shown.**
Installation of Selector Switch in Contender® EDSK Series Covers

**Installation of Selector Switch in Contender® EDSK Series Covers**

**Explosion-Proof and Dust-Ignition-Proof**

**1.** Selector Switch must be installed in 1/2” 14 NPSM opening(s).

**2.** Remove four housing screws, operator housing and handle assembly.

**3.** Use 1/2” nut driver to remove shaft bushing.

**4.** Place operator collar and gasket assembly on face of cover and line up openings with the two 1/2” threaded holes in cover. Thread in Selector Switch from inside of cover. (See Note)

**5.** Insert shaft through shaft bushing. While holding Selector Switch, thread shaft/bushing assembly through collar and gasket assembly and tighten down firmly. Secure bushing with clamp.

**6.** Insert operator handle and teflon gasket in operator housing. With arrow in operator handle pointing to "OFF" marking on nameplate, press operator housing down firmly on operator collar and fasten in place with four (4) housing screws.

**7.** Check Selector Switches electrically and mechanically for proper operation.

**NOTE:**
Threaded aluminum shell of Selector Switch Assembly MUST TOUCH the underside of operator collar gasket for proper operation of mechanism.

**A.** If one Selector Switch is to be installed, close up remaining 1/2" opening from inside of cover with close-up plug provided. Tighten securely with screwdriver. Tighten clamping screw to insure water tightness.

**B.** If two Selector Switches are to be installed, make sure insulation is in place. Tighten clamping screw to insure water tightness.
PILOT LIGHTS

Nominal Volts 50/60 Hertz

Source

Nominal 120V

Primary Voltage

Source

Nominal 220, 440, 550V

SELECTOR SWITCHES

Style 2 Position 2 Circuit

Left Position

Center Position None

Right Position

2 Position 4 Circuit

3 Position 2 Circuit

3 Position 4 Circuit

PUSHBUTTON STATIONS

Momentary

Maintained

1 Circuit Universal

2 Circuit Universal

1 Circuit Universal

1. Frequent inspection should be made. A schedule for maintenance checks should be determined by the environment and frequency of use. It is recommended that inspection should occur at least once a year.

2. Perform visual, electrical and mechanical checks on all components on a regular base.

3. Visually check for undue heating evidenced by discoloration of wires or other components, damaged or worn parts or leakage evidenced by water or corrosion in the interior.

4. Electrical check to make sure that all connections are clean and tight, and that contacts in the components make or break as required.

5. Mechanically check that all parts are properly assembled, and that operating mechanisms move freely.

WARNING

Always disconnect primary power source before opening the enclosure for inspection or service.

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