# Installation Instructions for Appleton ${ }^{\text {TM }}$ Contender ${ }^{\text {® }}$ 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 


#### Abstract

A 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.


#### Abstract

A 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, and G; and Class III hazardous locations.


| COVER WITH DEVICE* | FACTORY SEALED? | ELECTRICAL RATING |
| :---: | :---: | :---: |
| EDKL-U3 | YES | PUSHBUTTON SWITCH <br> 600 VAC MAX. HEAVY PILOT DUTY <br> PILOT LIGHT 125 VAC MAX. 60 Hz |
| EDKL-J3 | YES |  |
| EDKL-J1U2 | YES |  |
| EDKL-J2U1 | YES |  |
| EDK-DPB | NO |  |
| EDKB-12 | YES |  |
| EDKB-35 | YES |  |
| EDKB-102 | YES |  |
| EDKB-345 | YES |  |
| EDKB-DU1 | YES |  |
| EDKB-DU2 | YES |  |
| EDKB-J1** | YES |  |
| EDKB-J1DU1 | YES |  |
| EDKB-J1U1 | YES |  |
| EDKB-J1U2 | YES |  |
| EDKB-J2 | YES |  |
| EDKB-345-S636 | YES |  |
| EDKB-U1 $\dagger \dagger \dagger$ | YES |  |
| EDKB-U2 $\dagger \dagger \dagger$ | YES |  |
| EDSK-B $\dagger$ |  |  |
| EDKB-102-S634 | YES |  |
| EDKB-102-S635 | YES |  |
| EDKB-345-S634 | YES |  |
| EDKB-345-S635 | YES |  |
| EDKB-UM1 †t† | YES |  |
| EDKB-DPB | YES |  |
| EDKB-DPBM | YES |  |
| EDKB-RU1 | YES |  |
| EDKB-RU2 | YES |  |
| EDKB-PC120 | YES | $\begin{aligned} & \text { 125VAC-60HZ } \\ & \text { 1000VA LOAD } \end{aligned}$ |
| EDKB-PC277 | YES | 277VAC-6OHZ 1000VA LOAD |


| COMBINATION OF |  | FACTORY SEALED? | ELECTRICAL RATING |
| :---: | :---: | :---: | :---: |
| COVER* | DEVICE |  |  |
| EDSK-MS | EFS-2MS-Q | NO | 2P 30A-250VAC. 20A-600VAC, 2HP-230VAC. 3HP-575VAC |
| EDSK-MS | EFS-3MS-Q | NO | 3P 30A-250VAC, 20A-600VAC, 3HP-125VAC, 15HP-600VAC |
| EDSK-RU1 | EDS-RU1-Q | NO | 600 VAC MAX |
| EDSK-RU2 | EDS-MRU2-Q | NO | HEAVY PILOT DUTY |
| EDS-F23W-Q |  | YES | 3W 20A-120VAC, 20A-277VAC, 1HP-120VAC, 2HP-240VAC |
| EDS-F24W-Q | COVER WITH DEVICE | YES | 4W 20A-120VAC, 20A-277VAC, 1HP-120VAC, 2HP-240VAC |
| EDS-F33W-Q |  | YES | 3W 30A-120VAC, 30A-277VAC, 2HP-120VAC, 2HP-240VAC |
| EDS-F21-Q |  | YES | 1P 20A-120VAC, 20A-277VAC, 1HP-120VAC, 2HP-240VAC |
| EDS-F22-Q |  | YES | 2P 20A-120VAC, 20A-277VAC , 1HP-120VAC, 2HP-240VAC |
| EDS-F31-Q |  | YES | 1P 30A-120VAC, 30A-277VAC, 2HP 120,VAC, 2HP-240VAC |
| EDS-F32-Q |  | YES | 2P 30A-120VAC, 30A-277VAC, 2HP-120VAC, 2HP-240VAC |
| EDSK-1MSAB |  | YES | 1P 1HP-115/230VAC |
| EDSK-1MSW*** |  | YES | 1P 1HP-115/230VAC, 1/4HP-32VDC, 1/4HP-250DC |
| EDSK-2MSAB ${ }^{* *}$ |  | YES | 2P 1HP-115/230VAC, 3/4HP-32VDC, 3/4HP-250VDC |
| EDSK-2MSW*** |  | YES | 2P 1HP115/230VAC, 1/4HP-32VDC, 1HP-125VDC, 1/4HP-250VDC |
| EDSK-MC2*** |  | YES | 2P 30A-250VAC, 20A-600VAC, 2HP-230VAC, 3HP-575VAC |
| EDSK-MC3 |  | YES | 3P 30A-250VAC, 20A-600VAC, 3HP-125VAC, 15HP-600VAC |

* With or without suffix -A
** With or without suffix -S801, -S802, -S803, -S804
*** Heater table supplied with these devices must be affixed in or near the enclosure for future reference
$\dagger \quad$ Blank cover for use singly with 2-gang body only
$\dagger \dagger$ Device rating must match rating stamped on cover
t+t With or without suffix -L
- WARNING: To prevent ignition of Group C and D atmospheres, seals must be installed within five (5) feet on each conduit opening.

| APPLETON <br> 2-GANG TANDEM |  | APPLETON <br> THREE DEVICE |  |
| :--- | :--- | :--- | :--- |
| EDS177 | EDSC177 | EDS147 | EDSC147 |
| EDS277 | EDSC277 | EDS247 | EDSC247 |
| EDS377 | EDSC377 | EDS347 | EDSC347 |
| EDS177-SA | EDSC177-SA | EDS147-SA | EDSC147-SA |
| EDS277-SA | EDSC277-SA | EDS247-SA | EDSC247-SA |
| EDS377-SA | EDSC377-SA | EDS347-SA | EDSC347-SA |


| APPLETON <br> 1-GANG BODY |  | APPLETON <br> 2-GANG |  |
| :--- | :--- | :--- | :--- |
| EDSODY |  |  |  |
| EDS71 | EDSC171 | EDS172 | EDSC172 |
| EDS371 | EDSC271 | EDS272 | EDSC272 |
| EDS171-SA | EDSC371 | EDS372 | EDSC372 |
| EDS271-SA | EDSC271-SA | EDS172-SA | EDSC172-SA |
| EDS371-SA | EDSC371-SA | EDS272-SA | EDSC272-SA |


| CROUSE-HINDS <br> 1-GANG |  | CRODY <br> 2-GANE-HINDS |  |
| :--- | :--- | :--- | :--- |
| EDS171 | EDSC1711 | EDS172 | EDSC1722 |
| EDS271 | EDSC271 | EDS272 | EDSC272 |
| EDS371 | EDSC371 | EDS372 | EDSC372 |
| EDS171-SA | EDSC171-SA | EDS172-SA | EDSC172-SA |
| EDS272-SA | EDSC21-SA | EDS272-SA | EDSC272-SA |
| EDS371-SA | EDSC371-SA | EDS372-SA | EDSC372-SA |




## PILOT LIGHTS



Pushbutton Stations and Selector Switches Screw Terminals
NC= Normally Closed


NO= Normally Open
Factory Sealed Pushbutton Switch is supplied with optional Crimp-Type Terminal

Strip the insulation on each conductor wire back $3 / 8^{\prime \prime}$.
Use a slotted head screwdriver to loosen the field wiring terminal screws the required 3 or 4 turns.

Insert the bare wire conductor(s) on either side of the terminal screw(s), under the terminal wire screw(s), and securely tighten the screw(s). NOTE: Do Not exceed 15 in- lbs of torque.

## PUSHBUTTON STATIONS



## A WARNING

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

1. Frequent inspection should be made. A schedule for maintenance checks should be detrmined by the environment and frquency 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.

