

# FIRE SMOKE DAMPER MODEL ISOC INDICATOR SWITCH Open/Close

## APPLICATION

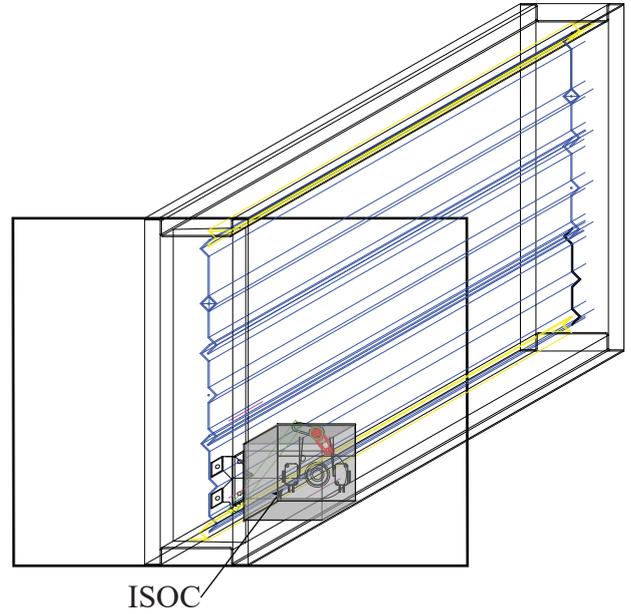
The ISOC assembly contains two single pole, single throw switches used to indicate damper blade position. The switches provide positive open and closed signals, when used in conjunction with remote indicator lights (IL). ISOC assemblies are used in active smoke control applications to positively indicate the status of all smoke and combination fire/smoke dampers in the building.

This switch assembly may also be used with "Push Button Switch (P)" as Test button for cutting the power on the actuator to test the unit Locally.

This ISOC units includes a switch mounting bracket, crank arm, blade bracket and a linkage from blade to the switch.

The ISOC-IL addition to the above include 2 lights indication for open & close.

The ISOC-P-IL addition to the above include Test push button and 2 lights indication for open & close



## RATINGS

**Switch Type:** (2) Single pole, Double throw

**Electrical Data:** 10 Amps, 250 Volts AC

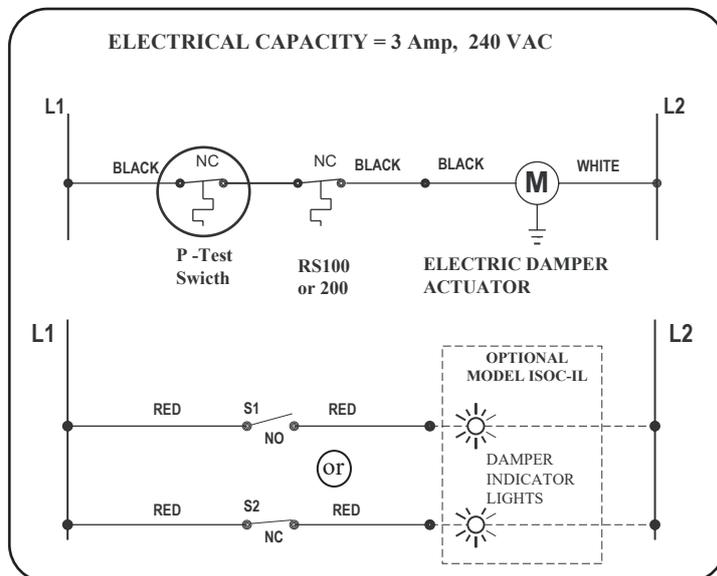
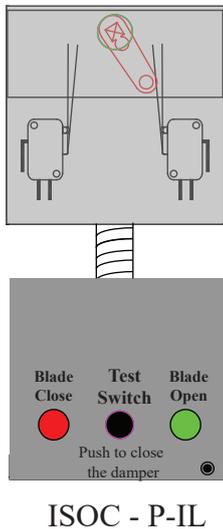
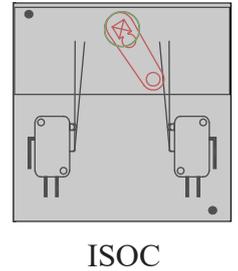
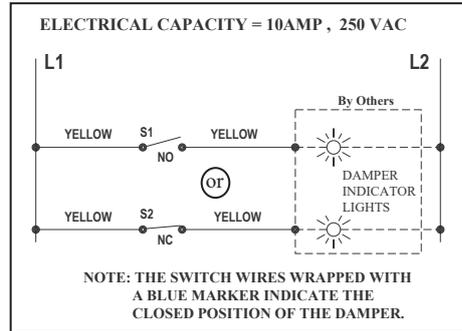
1.5 Amps, 30 Volts DC

**Temperature Limit:** Standard 250°F ( 121°C), Optional 392° F (200° C) nominal

**Test Switch:** Push Button Switch - Single Pole.

**Electrical Data:** 3 Amps, 250 Volts AC

**Temperature Limit:** Standard 221°F ( 105°C)



# FIRE SMOKE DAMPER

## MODEL ISOC

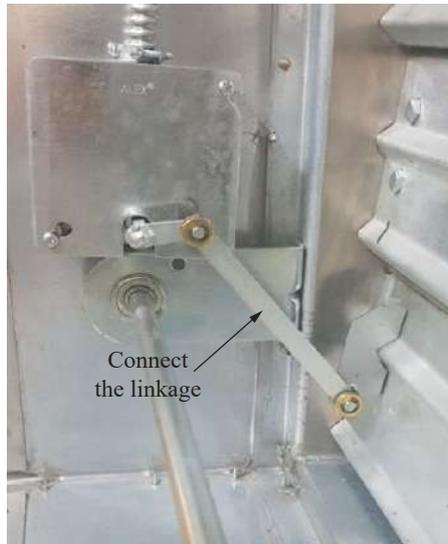
### INDICATOR SWITCH Open/Close INSTALLATION INSTRUCTION

#### INSTALLATION AT SITE

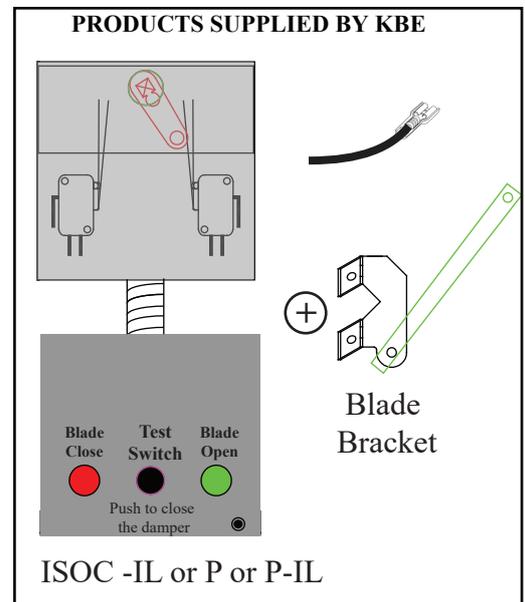
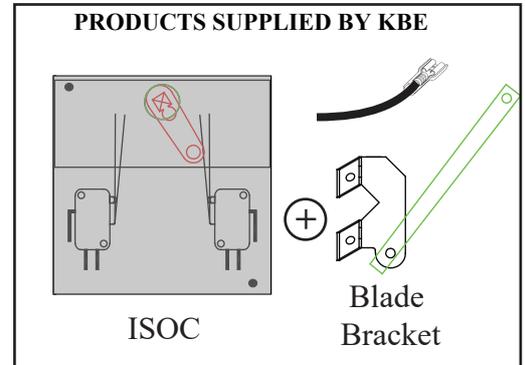
The ISOC is usually factory mounted and wired. In case ISOC is required to be installed at site, the installer need to follow the below instruction:

A- For ISOC Internaly Mounted

- 1- Attach the bracket blade to the blade by removing the blade axle screw & nuts of the last damper blade opposite to the blade crank arm, insert the Bracket and tide the screw and nut very well
- 2- Install the ISOC Box 25mm away from damper Frame edge and touch it to the Shaft brackets.



- 3-Fix the box with sheet metal srew to the damper sleeve
- 4- Connect the linkage between the blade bracket & the ISOC bracket
- 5- Connect the wires to the required port
- 6-Connect the flexible conduit to the ISOC Box & pass the cable
- 7-Drill a 20mm hole into the sleeve place a conduit connector and bring out the flexible conduit out of the sleeve
- 8-When finish all Electric connections, Cycle the Damper by Energizing & De-energizing the actuator. Check damper closure and tightness of the last blade and check the ISOC operation.



#### Electrical Guidelines

All wiring shall be done in accordance with the National Electrical Code ANSI/NFPA-70 latest edition, any local codes that may apply, and wiring diagrams developed in compliance with the job or project design and specifications.

**SAFETY DANGER!**  
Electrical input may be needed for this equipment. This work should be performed by a qualified electrician.

**SAFETY CAUTION !**  
Verify power before wiring actuator. KBE is not responsible for any damage to, or failure of the unit caused by incorrect field wiring.

**SAFETY DANGER !:**  
To avoid causing death or serious bodily harm to building occupants, follow all instructions carefully. Dampers must close completely to preserve the integrity of the fire smoke separation.



# FIRE SMOKE DAMPER

## MODEL ISOC

### INDICATOR SWITCH Open/Close INSTALLATION INSTRUCTION

#### INSTALLATION AT SITE

B- For ISOC externally Mounted

1- Attach the bracket blade to the blade by removing the blade axle screw & nuts of the last damper blade opposite to the blade crank arm, insert the Bracket and tight the screw and nut very well

2- Mark the sleeve at 75mm from the Frame edge & 15mm from the Shaft bracket to drill a 20mm hole into the sleeve & at the same level mark 2 holes at 40mm from each side of the center mark- these will be used to fix the ISOC box

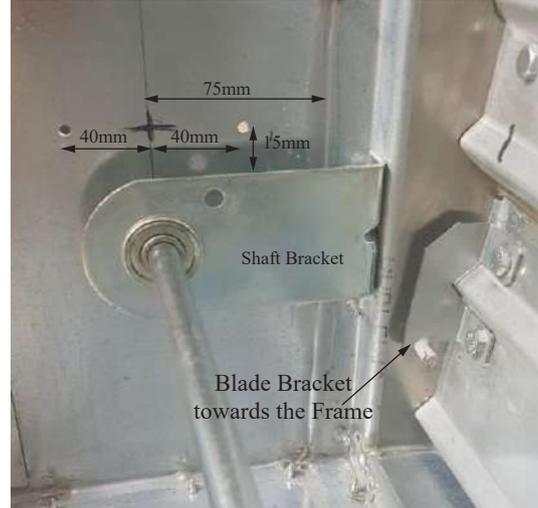
3-Drill the 20mm hole, introduce the ISOC linkage into the sleeve from the outside and fix the box to the sleeve with 5x15mm sheet metal screw on the 2 marks

4- Connect the linkage between the blade bracket & the ISOC bracket

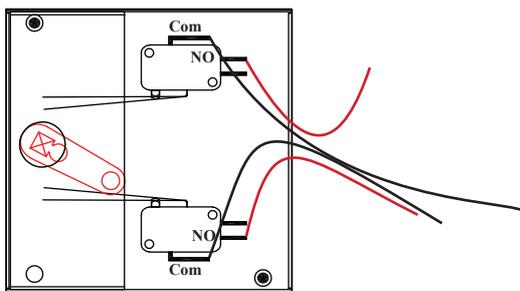
5- Connect the wires to the required port

6-Connect the flexible conduit to the ISOC Box & pass the cable

7-When finish all Electric connections, Cycle the Damper by Energizing & De-energizing the actuator. Check damper closure and tightness of the last blade and check the ISOC operation.

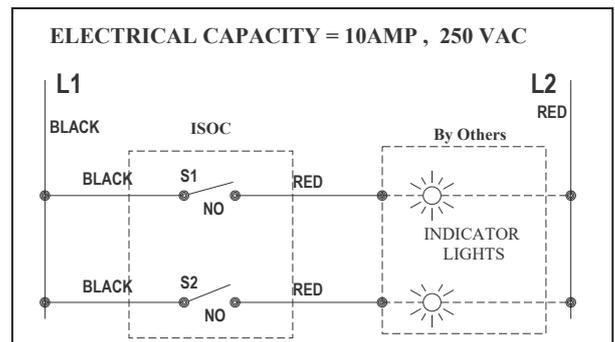


**Follow the below Wiring Diagram for Various combinations (page 2 & 3)**



ISOC

(Internal or External Mount)



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## MODEL ISOC

### INDICATOR SWITCH Open/Close INSTALLATION INSTRUCTION

