FIRE SMOKE DAMPER
MODEL BIS

BLADE INDICATOR SWITCH

APPLICATION

The BIS assembly contains a single pole, double throw switches used to indicate damper blade position. The switches installed internally onto the damper bracket and directly in contact with the open blade.
BIS 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 may also be used with "Test Switch (TS)" as Test button for cutting the power on the actuator to test the unit Localy.

This BIS units includes a switch mounting bracket, 2 connected Wires with Femal insulated disconnect wire

The BIS-IL addition to the above include 1 lights indication for open blade position.

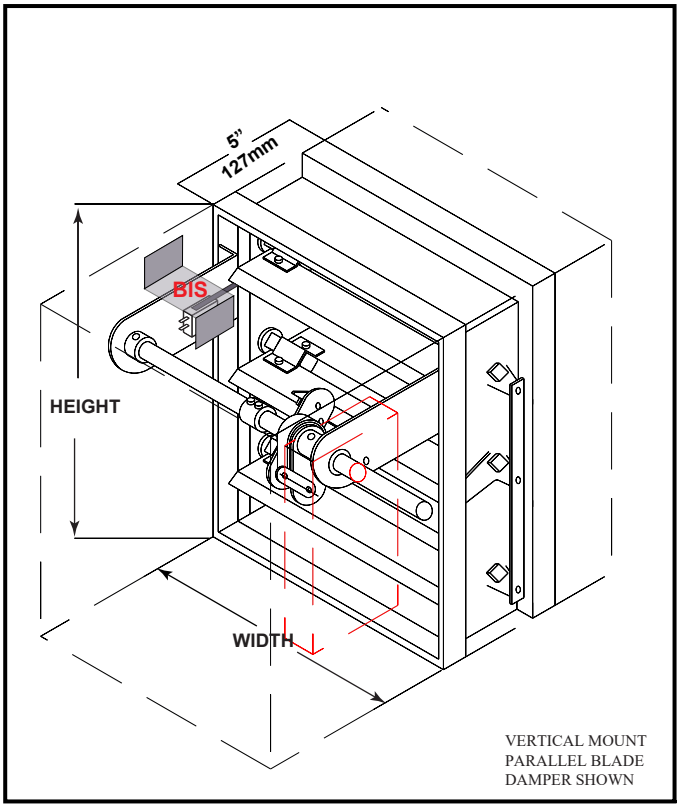
RATINGS

Switch Type: Single pole, Double throw
Electrical Data: 10 Amps, 30 Volts AC
5 Amps, 30 Volts DC
Temperature Limit: Standard 250°F (121°C), Optional 392° F (200° C) nominal

DAMPER MODELS

KFSD-111, KFD-555 & KSD-333
Maximum single unit size
36" Wide x 36" Height (915mm W x 915mm H)

Multi-section as per UL limitations



VERTICAL MOUNT
PARALLEL BLADE
DAMPER SHOWN

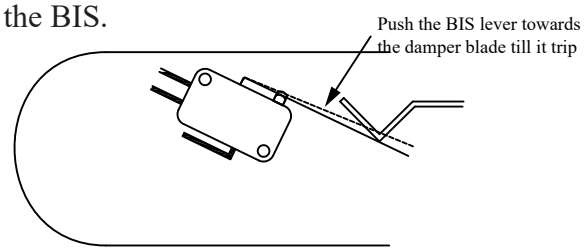
FIRE SMOKE DAMPER
MODEL BIS

BLADE INDICATOR SWITCH
INSTALLATION INSTRUCTION

INSTALLATION AT SITE

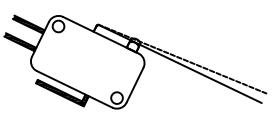
The BIS is usually factory mounted and wired.
In case BIS is required to be installed at site, the installer need to follow the below instruction:

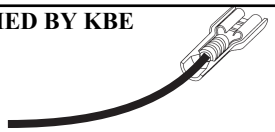
1- Open the Damper blade by energizing (or de-energizing) the actuator.
2- Point to the Blade which is opposite to the bracket shaft in the opposite side of the crank shaft.
3- Bring the BIS and place it on the bracket in way that the BIS LEVER touch the end of the blade and it will trip the BIS.

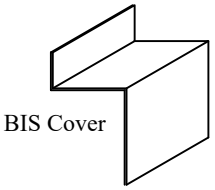


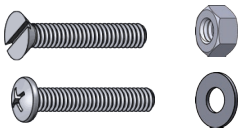
4- Mark the holes of the BIS on the bracket shaft assembly and prepare to drill a 3.5mm hole on the bracket.
5- Before drilling make sure that the hole does not interfere with any part of the damper
6- Drill your holes and fix the BIS with the 3mm machine screws with washer & nut to the bracket shaft
7-Connect the Female disconnect with the wire to the BIS
8-Place the BIS cover in a way the cover the BIS Electrical connection and does not touch the damper blade
9- Fix the BIS cover to the damper sleeve using sheet metal screw or rivets
10- Place the product & Power voltage warning label on the BIS cover
11- Test the operation through placing a 24V on the BIS wires and cycle the damper (open & close) and check the voltage cut, during the cycling

PRODUCTS SUPPLIED BY KBE

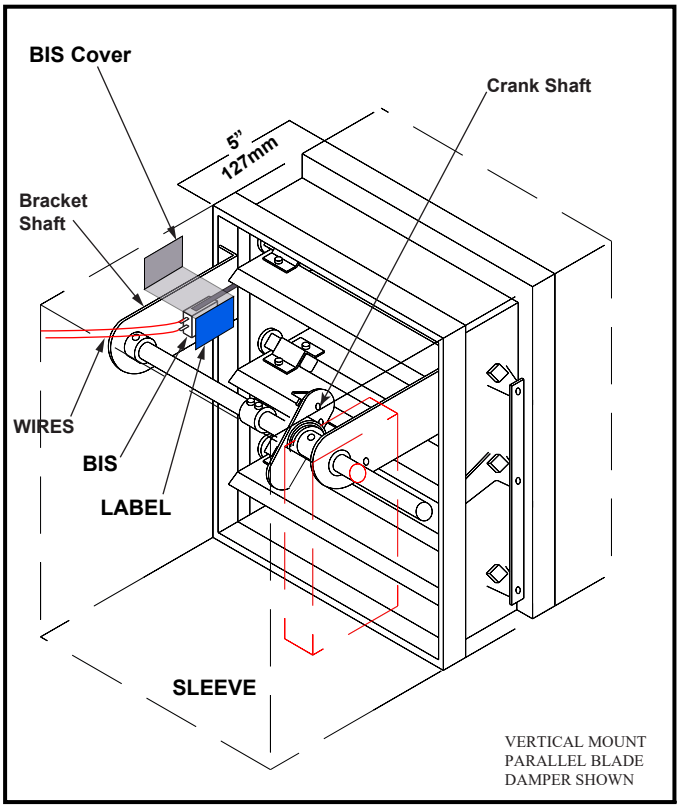

BIS


Fully insulated femalle disconnect with 250mm electric wire


BIS Cover

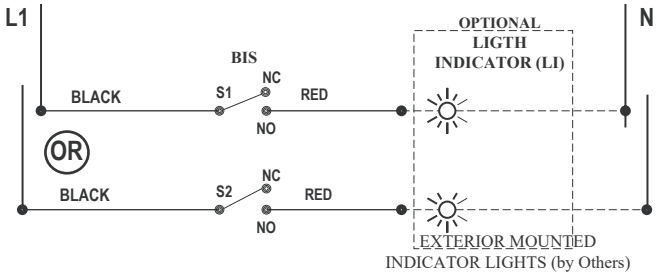

3mm Machine Screws with a nut & Washer.

Product & Power Voltage label



VERTICAL MOUNT
PARALLEL BLADE
DAMPER SHOWN

ELECTRICAL CAPACITY up to 3.3AMP , 30 VAC/DC



NB:Wire color might by other than shown

CLASSIFIED UL®
INSTALLATION INSTRUCTIONS IN CONFORMANCE TO UNDERWRITERS LABORATORIES REQUIREMENTS