

butterball®

INSTRUCTION SHEET FOR BB-SCK02L SUPERVISORY TAMPER SWITCH KIT FOR MOUNTING ON BUTTERBALL SLO-CLOSE™ VALVES

1. SCOPE

Model BB-SCK02L supervisory control kits when mounted on the Slo-Close Valve for fire protection sprinkler systems provide sensing of any position change from the full open position (For reverse, non-UL operation, see IMPORTANT NOTE below). This kit is to be used only on valves having flat, rectangular covers marked "BB-SC Series"

2. PRODUCT

The supervisory switches are mounted in the lower housing of the Slo-Close valve. Micro switches in the supervisory control housing are activated by the node on the brass shuttle which travels along the worm gear stem. Micro switches are rated 10 amps @ 115 VAC/60HZ and ½ amp @28 VDC.

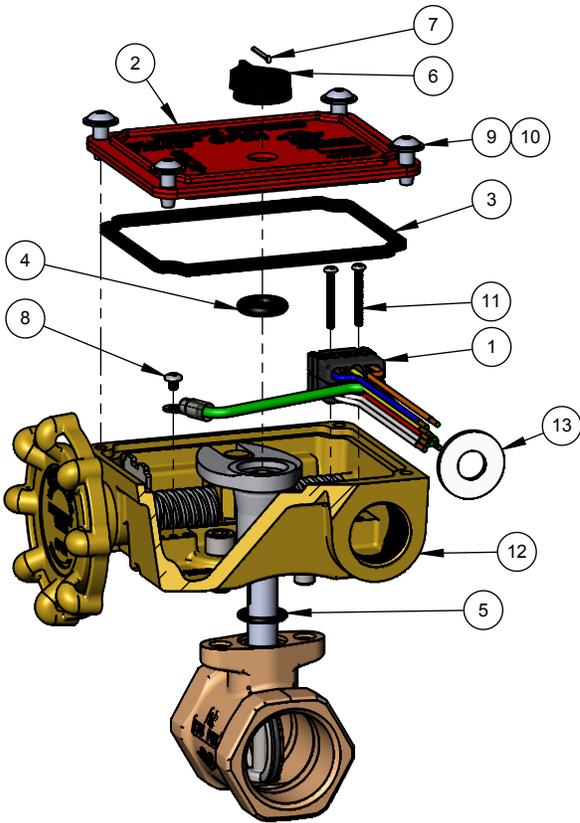
3. INSTALLATION (FOR UL LISTED VALVES)

- Check style of existing cover per scope. Cover should be rectangular in shape with all four corners being 90 degrees.
- Remove Cotter Pin (7), Indicator (6), Cover Screws (9), and Cover (2) from the Operator Housing (12). These items may be re-used or replaced.

3. INSTALLATION (FOR UL LISTED VALVES) CONTINUED

- Locate switch mounting holes in the bottom of Operator Housing (12). Position switches over mounting holes located opposite the valve handle with button of switches toward the valve stem. (Fig. 1). Secure with (2) Pan Head Philips Machine Screws (11). Locate green ground wire and secure as shown in Fig. 1 using Pan Head Screw (8).
- With Gasket (3) in place, align cover with red side up showing UL and FM markings and secure with Tamperproof Screws (9) and Nylon Washers (10). Replace Indicator (6) and secure with Cotter Pin (7).
- Make electrical connections per instructions below. Wiring schematic is shown on reverse side.

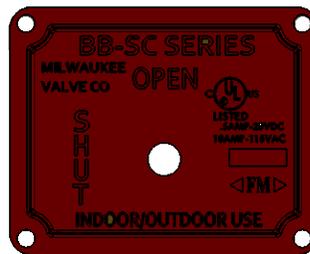
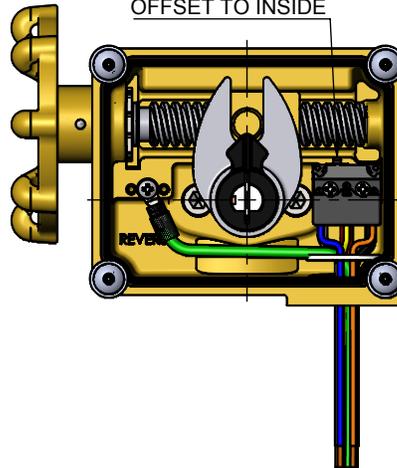
IMPORTANT NOTE FOR NON-UL LISTED ASSEMBLIES (Reverse switch operation): Some jurisdictions require that the valve sense any position change from the full closed position. In those instances the switches and ground wire can be reversed as shown in Fig. 2. The installer **MUST** then flip the cover over and install with bronze colored side facing up. Such installations are **NOT UL LISTED**.



SWITCH KIT PARTS

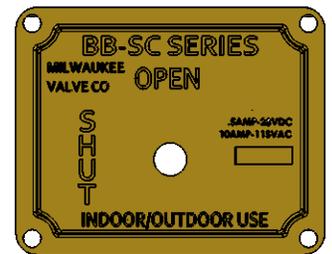
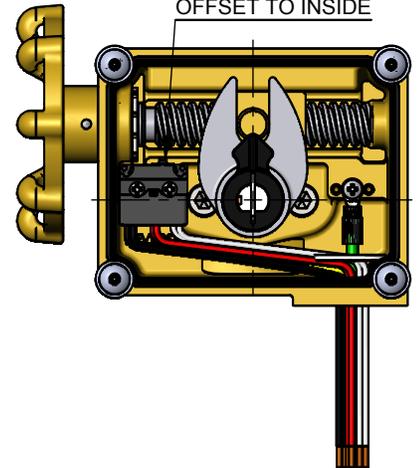
UL ASSEMBLY SWITCH ON RIGHT SIDE FIG. 1

NOTE: SWITCH
OFFSET TO INSIDE



NON UL ASSEMBLY SWITCH ON LEFT SIDE FIG. 2

NOTE: SWITCH
OFFSET TO INSIDE



ITEM NO.	QTY.	DESCRIPTION	MATERIAL
1	1	FULL SWITCH ASSY UL	
2	1	SLO-CLOSE COVER	ASTM B584, UNS# C85700
3	1	GASKET	BUNA-N (NITRILE), COMMERCIAL
4	1	O-RING, BUNA-N	BUNA-N
5	1	O-RING, BUNA-N	BUNA-N
6	1	INDICATOR, BLACK OXIDE	SINTERED IRON
7	1	COTTER PIN	ZINC-PLATED STEEL
8	1	PAN HEAD SCREW	STEEL TYPE C 1022
9	4	SCREW, TAMPERPROOF	SS 302, ASTM A276, TY.302, UNS# S30200
10	4	WASHER, NYLON	NYLON
11	2	PAN HEAD PHILIPS MACHINE SCREW	ANY 300 SERIES STAINLESS STEEL, CRES
12	1	HOUSING SLO-CLOSE	BRASS, ASTM B584, UNS# C85700
13	1	NYLON WASHER	NYLON

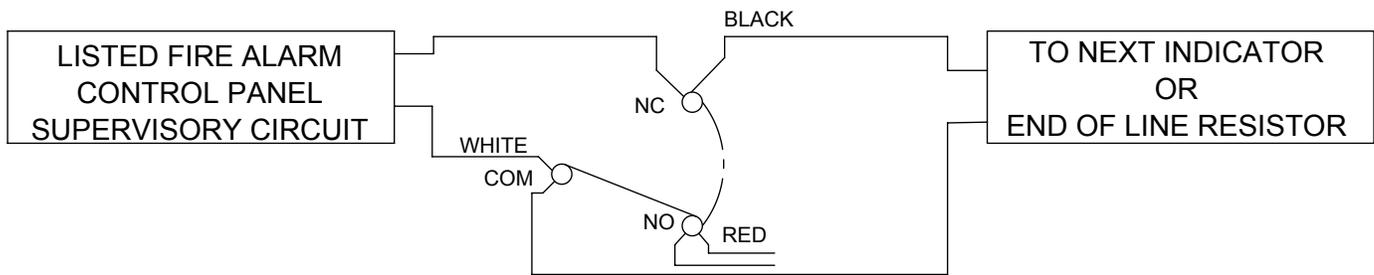
INNOVATION IN EVERY VALVE



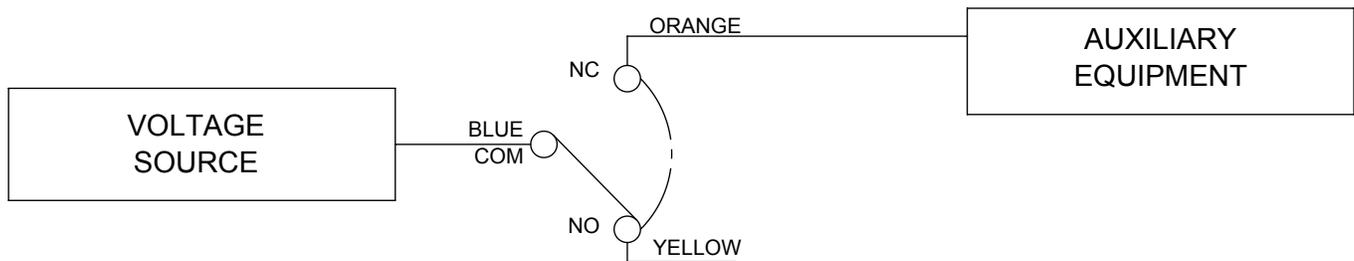
WIRING DIAGRAM

(SWITCH POSITION VALVE FULL OPEN)

SWITCH 1: DUAL LEADS

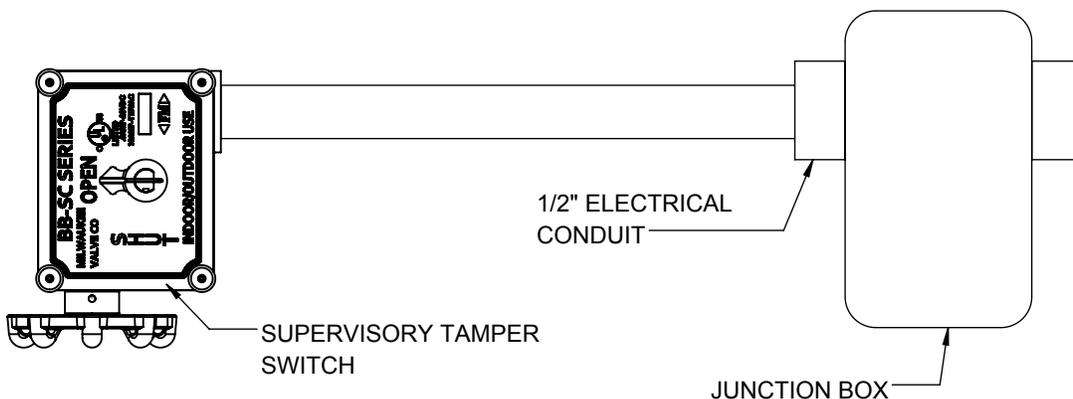


SWITCH 2: SINGLE LEADS



WIRING - USA

- A. SWITCH ONE WILL HAVE DUAL LEADS ON TWO TERMINALS. THIS SWITCH IS TO BE CONNECTED TO THE SUPERVISORY CIRCUIT OF A LISTED ALARM CONTROL PANEL. SWITCH TWO WILL HAVE SINGLE LEADS AND MAY BE CONNECTED TO AUXILIARY PER DIRECTION OF THE LOCAL AUTHORITY HAVING JURISDICTION. CAP ANY UNUSED WIRE LEADS WITH WIRE NUTS AND TUCK INTO JUNCTION BOX. ALL CONNECTIONS SHALL BE REVIEWED AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- B. A 14 GAUGE GREEN WIRE HAS BEEN FASTENED TO THE INTERIOR ON THE HOUSING AND IS TO BE USED AS A HOUSING GROUND.
- C. RECOMMENDED TYPE OF WIRE TO BE USED IS No. 16 DUAL RATED U.S. 300V 80 C AND 300V 105 C.
- D. INSTALLATION MUST BE IN COMPLIANCE WITH NFPA 72 AND 13, OR BONDED AND GROUNDED PER CANADIAN ELECTRICAL CODE PART 1.



INNOVATION
IN EVERY VALVE

MILWAUKEE VALVE