



INSTALLATION, OPERATION & MAINTENANCE DATA SHEET

**"XCS-OK" SPRING RETURN
SELECTOR SWITCH ASSEMBLIES
(KEY OPERATED)**

DESCRIPTION:

THE XCS-OK IS AN INTEGRAL COVER AND SWITCH ASSEMBLY USING THE BASIC DESIGN PRINCIPLES (AND MANY OF THE SAME PARTS) AS THE KILLARK "C" SERIES. BY UTILIZING A SHORTER FLANGE PATH AND USING A DIE CAST COVER, A CONSIDERABLE SAVINGS IN SPACE IS REALIZED. THESE UNITS USE PURNALS "R" SERIES CONTACT UNITS AND ARE TO BE MOUNTED IN "SWR" SERIES BOXES. THESE UNITS ARE FOR USE IN HAZARDOUS LOCATIONS, CLASS I, GROUPS C & D; CLASS II, GROUPS E, F & G; CLASS III AREAS. THE XCS-OK IS HEAVY DUTY, 600 VAC RATED.

OPERATION:

THE MECHANICAL ACTION OF THESE DEVICES IS ROTARY. THE ELECTRICAL ACTION IS DEPENDENT UPON THE CAM CONFIGURATION AND THE CONTACT BLOCKS USED (SEE TABLE). THESE SWITCHES ARE AVAILABLE IN KEYPED ALIKE OR KEYPED DIFFERENTIALLY. THE KEY IS REMOVABLE IN THE LOCKED POSITION.

MAINTENANCE:

FOR DETAIL OF PARTS, REFER TO BACK SIDE OF THIS SHEET. THE SHAFT SHOULD BE LUBRICATED OCCASIONALLY TO PREVENT BINDING. USE KILLARK "LUB" (GENERAL PURPOSE) OR KILLARK "LUBT" (HIGH TEMPERATURE LUBRICANT).

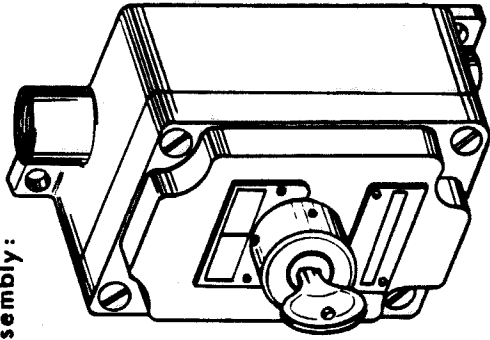
DANGER:

A STANDARD NAMEPLATE IS AFFIXED TO THE COVER AND READS, "DISCONNECT FROM SUPPLYING CIRCUIT BEFORE OPENING. KEEP ASSEMBLY TIGHT DURING OPERATION". BE SURE THE FLAME PATHS (COVER TO BOX MATING SURFACES AND SHAFT TO SHAFT HOLE) DO NOT BECOME DAMAGED OR OUT OF TOLERANCE (REFER TO BACK OF SHEET FOR TOLERANCES). DO NOT INSTALL IN A CORROSIVE AREA WHICH WILL ATTACK THE "COPPER FREE" ALUMINUM ALLOYS OR STAINLESS STEEL SHAFT UNLESS THE CASTINGS AND PARTS HAVE BEEN PROTECTED AGAINST THE SPECIFIC CORROSIVE ENVIRONMENT. NOTE: THE LOCKBODY IS A POLISHED CHROME PLATED ZINC DIE CASTING. DO NOT LOCATE IN AREAS WHERE DUST, ICE, SNOW, OR OTHER SUBSTANCES WILL ACCUMULATE AND THEREBY IMPAIR THE ROTARY OPERATION OF THE DEVICE. BE SURE TO FILL ALL SEALING FITTINGS WITH COMPOUND AND BE SURE COMPOUND HAS HARDENED BEFORE ENERGIZING THE ELECTRICAL SYSTEM. IF THE ASSEMBLY BECOMES DAMAGED, REPLACE WITH A NEW DEVICE. FOR FURTHER RESTRICTIONS REFER TO ARTICLE 500 OF THE NATIONAL ELECTRICAL CODE (LATEST REVISION).

INSTALLATION:

THE XCS-OK DEVICES ARE FOR SURFACE MOUNTING IN HAZARDOUS ATMOSPHERES AS DEFINED BY ARTICLE 500 OF THE NATIONAL ELECTRICAL CODE. THEY CONTAIN AN ELECTRICAL DEVICE AND MUST BE SEALED FROM THE CONDUIT SYSTEM AS REQUIRED BY ARTICLE 501-5. TYPE "EY" OR "EYS" SEALING FITTINGS OR EQUAL SHOULD BE USED.

**XCS-OK
Assembly:**



GENERAL INSTALLATION PROCEDURE:

MOUNT THE BOX BY MEANS OF MOUNTING LUGS PROVIDED, INSTALL NIPPLE AND SEALING FITTINGS, ONE EACH TO BE INSTALLED ON EACH CONDUIT ENTRANCE OR EXIT TO THE ENCLOSURE, IN CLASS I AND CLASS II AREAS... (REFERENCE: ARTICLE 500 NEC). THREAD CONDUIT INTO SEAL. (NOTE: FOR CLASS I AREAS, THE CONDUIT SHOULD ENGAGE (5) FULL THREADS).

THE CONDUIT THREADS SHOULD BE LUBRICATED WITH A NON-ELECTRICAL INSULATING LUBRICANT, OR PIPE JOINT COMPOUND WHICH WILL NOT PROMOTE CORROSION OR CHEMICALLY ATTACK ALUMINUM.

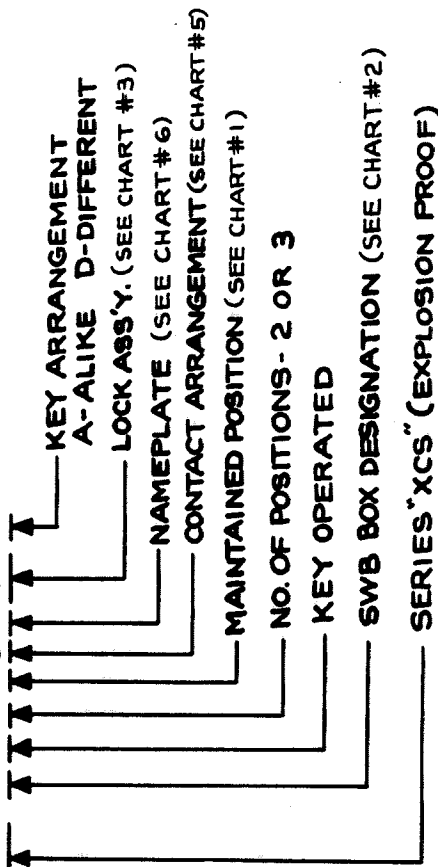
AFTER THE CONDUIT SYSTEM HAS BEEN PROPERLY INSTALLED, PULL THE WIRES AND MAKE UP THE ELECTRICAL CONNECTIONS AS REQUIRED. THE ELECTRICAL CIRCUITS AND GROUND CONTINUITY SHOULD BE CHECKED WITH AN INSTRUMENT APPROVED FOR THE AREA.

FOR STANDARD CATALOG NUMBERS (COVER ASSEMBLIES ONLY) SEE CHART #1, AND FOR CATALOG SYSTEM, SEE ADJOINING CHART. FOR PARTS NUMBERS, CONTACT ARRANGEMENTS, LOCKING ACTIONS, AND "SWR" BOXES, SEE BACK SIDE OF THIS SHEET.

CHART #1 COVER ASS'YS. ONLY - STANDARD CAT. NUMBERS (1) N.O. BLOCK TO LEFT - (1) N.C. BLOCK TO RIGHT			
HOW KEYED	CAT. NO.	CONTACT SCHEMATIC	ACTION
DIFFERENT ALIKE (KEY NO. C-132-B)	XCS-OK2L3F22D XCS-OK2L3F22A		SPRING RETURN TO LEFT FROM RIGHT-MAINTAINED LEFT. KEY REMOVABLE FROM LEFT POSITION.
DIFFERENT ALIKE (KEY NO. C-132-B)	XCS-OK3C3G32D XCS-OK3C3G32A		SPRING RETURN TO CENTER FROM RIGHT OR LEFT. MAINTAINED IN CENTER. KEY REMOVABLE CENTER ONLY.
DIFFERENT ALIKE (KEY NO. C-132-B)	XCS-OK3R3G32D XCS-OK3R3G32A		SPRING RETURN TO CENTER FROM LEFT-MAINTAINED IN CENTER & RIGHT. KEY REMOVABLE IN CENTER STD. KEY REMOVABLE IN RIGHT (OPTIONAL)
DIFFERENT ALIKE (KEY NO. C-132-B)	XCS-OK3L3G32D XCS-OK3L3G32A		SPRING RETURN TO CENTER FROM RIGHT. MAINTAINED IN CENTER & LEFT. KEY REMOVABLE IN CENTER STD. (KEY REMOV. IN LEFT OPTIONAL)

"XCS-OK" CATALOG SYSTEM

XCS-OK2L3F22D



#2 BOX IDENTIFICATION

IDENT. NO.	NO. GANGS	CAT. NO.	IDENT. NO.	NO. GANGS	CAT. NO.
0	-	LESS BOX	35	6	SWB-35
14	1	SWB-14	36	9	SWB-36
18	2	SWB-18	37	12	SWB-37
19	3	SWB-19	38	15	SWB-38
20	4	SWB-20	41	1	SWB-41
21	5	SWB-21	42	1	SWB-42
31	4	SWB-31	43	1	SWB-43
32	6	SWB-32	44	1	SWB-44
33	8	SWB-33	45	1	SWB-45
34	10	SWB-34	46	1	SWB-46

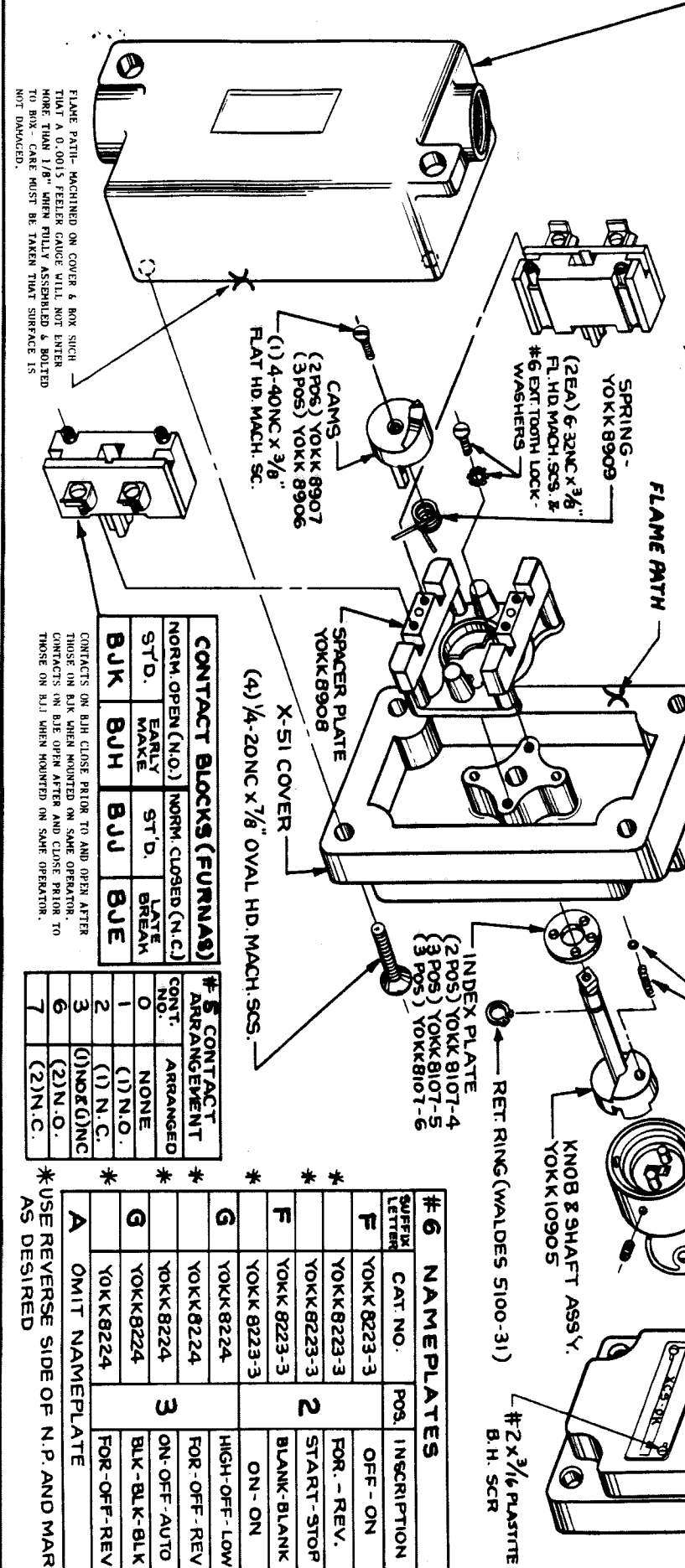
#3 LOCKING ASS'Y.

APP'Y. NO.	DESCRIPTION
31	3 POSITION OPTIONAL. KCS-OR 3R ONLY. KEY REMOV. RIGHT POSITION.
22	2 POSITION KCS-ONCL ONLY KEY REMOVABLE LEFT POS. STD. KEY ARRANGEMENT.
32	3 POSITION-ALL DEVICES-STD. MANAGEMENT-KEY REMOVABLE CENTER POS.
33	3 POSITION OPTIONAL. KCS-ONCL ONLY KEY REMOV LEFT POSITION ONLY.

#4 LOCK ASSEMBLIES

POS.	CAT. NO.	SUFF. LET.	KEY REMOV.
2	YOKK10514-5	D	LEFT
2	YOKK10514-6	A	LEFT
3	YOKK10514-5	D	CENTER
3	YOKK10514-6	A	CENTER
2	YOKK10514-11	D	LEFT
2	YOKK10514-12	A	LEFT
3	YOKK10514-11	D	CENTER
3	YOKK10514-12	A	CENTER

(4) 6-32NC X 1/8" UMBRAKO
CUP PT. 90CK. HD. SET SCRS.
BALL (FURNAS-S-217-1)
SPRING (FURNAS-D-11400-1)



FLAME PATH- MACHINED ON COVER & BOX SUCH THAT A 0.0015 FEELER GAUGE WILL NOT ENTER MORE THAN 1/8" WHEN FULLY ASSEMBLED & BOLTED TO BOX- CARE MUST BE TAKEN THAT SURFACE IS NOT DAMAGED.

CONTACT BLOCKS (FURNAS)

NORM. OPEN (N.O.)	NORM. CLOSED (N.C.)
STD. MAKE	ST. D. BREAK
BJK	BUH
BJJ	BUE

CONTACTS ON BUH CLOSE PRIOR TO AND OPEN AFTER THOSE ON BJK WHEN MOUNTED ON SAME OPERATOR. CONTACTS ON BUH OPEN AFTER AND CLOSE PRIOR TO THOSE ON BJJ WHEN MOUNTED ON SAME OPERATOR.

#5 CONTACT ARRANGEMENT

CONT. NO.	ARRANGED
0	NONE
1	(1) N.O.
2	(1) N.C.
3	(1) INDG(NC)
6	(2) N.O.
7	(2) N.C.

#6 NAMEPLATES

SUFFIX LETTER	CAT. NO.	POS.	INSCRIPTION
F	YOKK 8223-3	OFF-ON	FOR.-REV.
	YOKK 8223-3	FOR.-REV.	START-STOP
	YOKK 8223-3	START-STOP	BLANK-BLANK
F	YOKK 8223-3	ON-ON	ON-ON
G	YOKK 8224	HIGH-OFF-LOW	FOR-OFF-REV
	YOKK 8224	FOR-OFF-REV	ON-OFF-AUTO
G	YOKK 8224	ON-OFF-AUTO	BLK-BLK-BLK
	YOKK 8224	BLK-BLK-BLK	FOR-OFF-REV
A	OMIT NAMEPLATE		

* USE REVERSE SIDE OF N.P. AND MARK AS DESIRED