

**CONTACT TARGET TABLE FOR 2 POSITION SELECTOR SWITCHES**

To determine the contact targets of Allen-Bradley two position selector switches, proceed as follows:

- Determine on which **SIDE** of the selector switch the contact block is mounted: **WHITE** or **BLACK**. On the back of the selector switch is a molded plastic cover. On this cover is a nameplate indicating Catalog No. of the operator and location of side 1 (white actuator). Side 2 (black actuator) is the opposite side.
- Identify the **CONTACT BLOCK** used by looking at the contact block cover plate and finding a Catalog No., such as 800T-XA.
- Identify the **CIRCUIT** for which the contact target is desired by looking again at the contact block cover plate for a wiring symbol such as "A", "B", "A1", etc.
- Identify the **CAM** used by looking again at the nameplate on

the molded plastic cover on the back of the selector switch operator. The Catalog No., with exceptions listed below, contains the cam identification following the flag letter "K".

Example Catalog Nos.: 800T-H2KE8 or 800H-HR2KE8. The **E8** is the cam identification (there may be digits following).

**Exceptions:** Selector switches where a special cam was not specified. On standard two position maintained, a **B6** cam is used. On standard two position spring return, an **L8** cam is used.

Example Catalog Nos. of standard selector switches: 800T-F2A, 800T-H17C, 800T-H2B, 800T-H32H

- Refer to the table below and find the actuator color, contact block, and wiring symbol. Read across the top to find the cam and knob position. Where these two columns intersect will be the contact target.

CONTACT BLOCK	Contact Block 800T-	Single Circuit Or Optional	Normal Circuit Operation	Wiring Symbol	CAM CODE AND KNOB POSITIONS										
					Maintained				Spring Return From Left		Spring Return From Right				
					B6	E8	L8	L8	L8	L8	L8	L8			
WHITE	XA, XAR, XAP	XD2 or XD6 XD2R, XD2P	NC	B	X	O	O	X	O	X	O	X	X	O	
		XD1 or XD5 XD1R, XD1P	NO	A	O	X	X	O	O	X	O	X	O	X	
	XA1	XD4	NCLB	BZ1	X	O	O	X	O	X	O	X	X	O	
		XC or XD5 XD1R, XD1P	NO	A2	O	X	X	O	X	O	X	O	O	X	
	XA2, XA2R	XD1 or XD5 XD1R, XD1P	NO	A1	O	X	X	O	X	O	X	O	O	X	
		XD1 or XD5 XD1R, XD1P	NO	A2	O	X	X	O	X	O	X	O	X	O	X
	XA4, XA4R	XD2 or XD6 XD2R, XD2P	NC	B1	X	O	O	X	O	X	O	X	X	O	
		XD2 or XD6 XD2R, XD2P	NC	B2	X	O	O	X	O	X	O	X	X	O	
	XA7	XD4	NCLB	BZ1	X	O	O	X	O	X	O	X	X	O	
		XD2 or XD6 XD2R, XD2P	NC	B2	X	O	O	X	O	X	O	X	X	O	
	XD3	—	NOEM	AZ	O	X	X	O	X	O	X	O	O	X	
	XD4	—	NCLB	BZ	X	O	O	X	O	X	O	X	X	O	
BLACK	XA, XAR, XAP	XD2 or XD6 XD2R, XD2P	NC	B	X	O	X	O	O	X	O	X	X	O	
		XD1 or XD5 XD1R, XD1P	NO	A	O	X	O	X	X	O	X	O	O	X	
	XA1	XD4	NCLB	BZ1	X	O	X	O	O	X	O	X	X	O	
		XD1 or XD5 XD1R, XD1P	NO	A2	O	X	O	X	X	O	X	O	O	X	
	XA2, XA2R	XD1 or XD5 XD1R, XD1P	NO	A1	O	X	O	X	X	O	X	O	O	X	
		XD1 or XD5 XD1R, XD1P	NO	A2	O	X	O	X	X	O	X	O	O	X	
	XA4, XA4R	XD2 or XD6 XD2R, XD2P	NC	B1	X	O	X	O	O	X	O	X	X	O	
		XD2 or XD6 XD2R, XD2P	NC	B2	X	O	X	O	O	X	O	X	X	O	
	XA7	XD4	NCLB	BZ1	X	O	X	O	O	X	O	X	X	O	
		XD2 or XD6 XD2R, XD2P	NC	B2	X	O	X	O	O	X	O	X	X	O	
	XD3	—	NOEM	AZ	O	X	O	X	X	O	X	O	O	X	
	XD4	—	NCLB	BZ	X	O	X	O	O	X	O	X	X	O	

The slanted lines represent the knob positions

**Abbreviation and Symbols**  
 NO - Normally Open  
 NC - Normally Closed  
 LB - Late Break  
 EM - Early Make  
 X - Closed  
 O - Open

XA2 contact blocks must be used only on the 2ND level if stacked.

REFERENCES		CONTACT TARGET TABLES		WAS	
REVISION	DIMENSIONS APPLY BEFORE SURFACE TREATMENT	2, 4 POSITION SELECTOR SWITCHES		ALLEN-BRADLEY	
RELEASE	(DIMENSIONS IN INCHES) TOLERANCES UNLESS OTHERWISE SPECIFIED			MILWAUKEE, WISCONSIN	
1 506-89-1	2 PLACE DECIMAL (.XX) ±	DR. K. GAJEWSKI	DATE 1-11-89	SHEET 1 OF 2	
	3 PLACE DECIMAL (.XXX) ±	CHKD. <i>M.A. Gajewski</i>	DATE 1/11/89	DWG. SIZE	
REFER. BOOK 40061	ANGLES ±	APPD. <i>L. Gajewski</i>	DATE 1-11-89	R 40061-064	

CONTACT TARGET TABLE FOR 4 POSITION SELECTOR SWITCHES

To determine the contact targets of Allen-Bradley four position selector switches, proceed as follows:

- Determine on which SIDE of the selector switch the contact block is mounted: WHITE or BLACK. On the back of the selector switch is a molded plastic cover. On this cover is a nameplate indicating Catalog No. of the operator and location of side 1 (white actuator), Side 2 (black actuator) is the opposite side.
- Identify the CONTACT BLOCK used by looking at the contact block cover plate and finding a Catalog No., such as 800T-XA.
- Identify the CIRCUIT for which the contact target is desired

by looking again at the contact block cover plate for a wiring symbol such as "A", "B", "A1", etc.

- Identify the CAM used by looking again at the nameplate on the molded plastic cover on the back of the selector switch operator. The Catalog No. contains the cam identification following the flag letter "K".

Example Catalog Nos.: 800T-N2KF4 or 800H-NR2KF4

The F4 is the cam identification (there may be digits following).

- Refer to the table below and find the actuator color, contact block, and wiring symbol. Read across the top to find the cam and knob position. Where these two columns intersect will be the contact target.

ACTUATOR	Contact Block 800T	Single Circuit Or Oppositel	Normal Circuit Operation	Wiring Symbol	CAM CODE AND KNOB POSITIONS				
					F4	G4	K4	M4	P4
					↔↔↔↔	↔↔↔↔	↔↔↔↔	↔↔↔↔	↔↔↔↔
WHITE	XA, XAR, XAP	XD2 or XD6 XD2R, XD2P	NC	B	OXOX	OXOX	OXOX	OXOX	OXOX
		XD1 or XD5 XD1R, XD1P	NC	A	OXOX	OXOX	OXOX	OXOX	OXOX
	XA1	XD4	NCLB	BZ1	OXOX	OXOX	OXOX	OXOX	OXOX
		XD1 or XD5 XD1R, XD1P	NO	A2	OXOX	OXOX	OXOX	OXOX	OXOX
	XA2, XA2R	XD1 or XD5 XD1R, XD1P	NO	A1	OXOX	OXOX	OXOX	OXOX	OXOX
		XD1 or XD5 XD1R, XD1P	NO	A2	OXOX	OXOX	OXOX	OXOX	OXOX
	XA4, XA4R	XD2 or XD6 XD2R, XD2P	NC	B1	OXOX	OXOX	OXOX	OXOX	OXOX
		XD2 or XD6 XD2R, XD2P	NC	B2	OXOX	OXOX	OXOX	OXOX	OXOX
	XA7	XD4	NCLB	BZ1	OXOX	OXOX	OXOX	OXOX	OXOX
		XD2 or XD6 XD2R, XD2P	NC	B2	OXOX	OXOX	OXOX	OXOX	OXOX
XD3	---	NOEM	AZ	OXOX	OXOX	OXOX	OXOX	OXOX	
XD4	---	NCLB	BZ	OXOX	OXOX	OXOX	OXOX	OXOX	
BLACK	XA, XAR, XAP	XD2 or XD6 XD2R, XD2P	NC	B	OXOX	OXOX	OXOX	OXOX	OXOX
		XD1 or XD5 XD1R, XD1P	NO	A	OXOX	OXOX	OXOX	OXOX	OXOX
	XA1	XD4	NCLB	BZ1	OXOX	OXOX	OXOX	OXOX	OXOX
		XD1 or XD5 XD1R, XD1P	NO	A2	OXOX	OXOX	OXOX	OXOX	OXOX
	XA2, XA2R	XD1 or XD5 XD1R, XD1P	NO	A1	OXOX	OXOX	OXOX	OXOX	OXOX
		XD1 or XD5 XD1R, XD1P	NO	A2	OXOX	OXOX	OXOX	OXOX	OXOX
	XA4, XA4R	XD2 or XD6 XD2R, XD2P	NC	B1	OXOX	OXOX	OXOX	OXOX	OXOX
		XD2 or XD6 XD2R, XD2P	NC	B2	OXOX	OXOX	OXOX	OXOX	OXOX
	XA7	XD4	NCLB	BZ1	OXOX	OXOX	OXOX	OXOX	OXOX
		XD2 or XD6 XD2R, XD2P	NC	B2	OXOX	OXOX	OXOX	OXOX	OXOX
XD3	---	NOEM	AZ	OXOX	OXOX	OXOX	OXOX	OXOX	
XD4	---	NCLB	BZ	OXOX	OXOX	OXOX	OXOX	OXOX	

1 The slanted lines represent the knob positions  
 2 Nilset CAMs cannot be used with metal wing lever operators or XD3 Contact Blocks because inertia upon spring return may cause unintended contact action  
 3 XA2 contact blocks must be used only on the 2 ND level if started

Abbreviations and Symbols  
 NO Normally Open X Closed  
 NC Normally Closed O Open  
 LB Lute Break N/A Not Available  
 EM Early Make

40061-064-01(A)  
 Print in U.S.A.



-01	A	TWO SIDE PRINTED BODY STOCK WHITE BODY INK BLACK	6" W x 8 1/2" H (FLAT) 3 1/4" W x 2 1/8" H (FOLDED)
Part No.	Chg. Ltr.	Material	Finished size

DO NOT WRITE IN THIS AREA

REFERENCES	CONTACT TARGET TABLES	WAS
REVISION	2, 4 POSITION SELECTOR SWITCHES	ALLEN-BRADLEY MILWAUKEE, WISCONSIN
RELEASE		
1 506-89-1	(DIMENSIONS IN INCHES) TOLERANCES UNLESS OTHERWISE SPECIFIED	DR. K. GAJEWSKI DATE 1-11-89 SHEET 2 OF 2
	2 PLACE DECIMAL (.XX)	CHKD. <i>M.A. Gajewski</i> DATE 1/11/89
	3 PLACE DECIMAL (.XXX)	APPD. <i>K. Gajewski</i> DATE 1-13-89
REFER. BOOK 40061	ANGLES ±	DWG. SIZE B 40061-064