SIEMENS

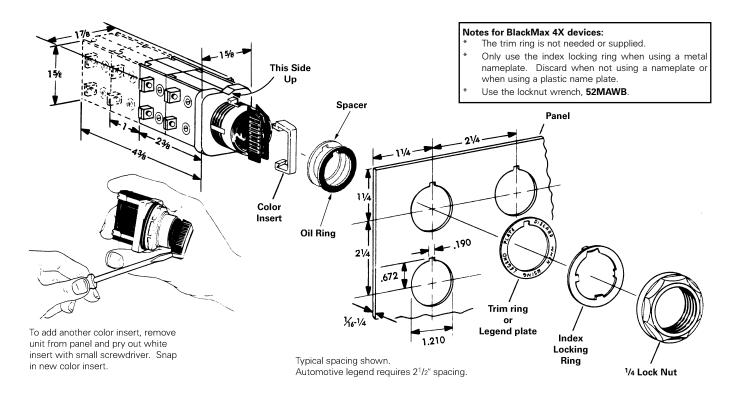
Instructions

April, 2001 Supersedes Issue of July, 2000 When installed as indicated, these operators are suitable for use in Type 1, 3, 3R, 4, 12, or 13 enclosures.

Black Max (52PX) suitable for Type 4X enclosures.

52-HSA2

Selector Operator Class 52 Cat. No. 52SA2, 52SB2 52SX2 & 52SW2





AWARNING

Hazardous voltage. Can cause death, serious personal injury, or property damage.

To avoid electrical shock, turn off electrical power to controls before performing installation maintenance.

INSTALLATION

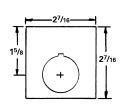
Unit are assembled as shown.

- 1. Position and press in color insert if required.
- 2. Assemble oil ring.
- 3. Mount unit on panel as shown in the illustration.
- 4.* Position trim ring or legend plate (trim ring is discarded when legend plate is used).
- 5.* Position index locking ring on unit as shown in illustration.
- 6. Assemble and tighten lock nut to 15 ft. lbs.
 - * Trim ring not used on black 4X devices.
 - * Locking ring not needed with plastic legend plates.

LEGEND PLATES



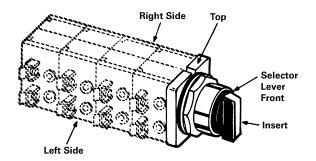




(For Engineering Reference Only - Rev. F)

Instructions 52-HSA2

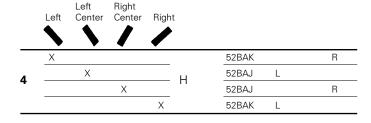
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Lever or Key Operator

Selector Position	Lever Positio X indicates	n	Cam Ltr	Contact Block			
rosition	contact close	ed		Cat No	Mounting Right		
	Left	Right		Left			
	Χ		Α	52BAJ	L	or	R
		Χ	A	52BAK	L	or	R
2	Illuminated						
	Χ		Α	52BAJ	L		
		Χ		52BAK	L		
Left	Center	Right					
X				52BAK			R

Χ				52BAK			
		Χ	В	52BAK	L		
X	Χ			52BAJ	L		
	Χ	X		52BAJ			
X			C	52BAJ	L	or	
		Χ		52BAK	L	or	
	Χ		- D	52BAJ	L	or	
		Χ	<i>D</i>	52BAK	L	or	
X			E	52BAK	L	or	
	Χ		L	52BAJ	L	or	
X			<u>.</u>	52BAJ	L		
	Χ		G	52BAJ			
		Χ		52BAK	L	or	
Illumina	ted						
X			C/B	52BAJ	L		
		Χ	C/D	52BAK	L		
	Χ		C/B	52BAK			
X		Χ	CID	52BAJ			



Contact and Cam Selection

- 1. Under Selector Position find the selector operation required (2, 3, or 4 positions).
- 2. Select the contact operation required for each selector Lever Position (X indicates when contacts are closed).
- The Cam Letter column indentifies the cam of the selector operator.
- 4. Contact block must be assembled in position shown for each circuit application.
- 5. Cam D, E,, or G may be ordered at the same price by changing the 6th character of the selector catalog number.
- C and G cams on spring return selectors are limited to 4 contact blocks.

Example: Selector with **D** cam 52SA2**D**AB.

Push Operator

Selector Position	Lever Position X indicates				Cam	Contact Block			
Position		itact clo			Ltr.	Cat No	Mour	nting	
	Left		Rig	ht			Left		Right
	1	•	4						
	Ν	D	Ν	D					
	X					52BAJ			R
	Χ	Χ			0	52BAJ	L		
		Χ		X	Q	52BAK			R
2				X		52BAK	L		
	X				Р	52BAJ	L	OR	R
		Χ	Χ	X		52BAK	L	OR	R
	X	Χ	Χ			52BAJ	L		
	Χ		Χ	Χ	R	52BAJ			R
		Χ				52BAK			R
				X		52BAK	L		

	Left	Center	Right		
3	N D	N D	N D		
3	XX			52BAJ L	
	X	ХХ		52BAJ	R
	X		χS	52BAK	R
		X	X	52BAK L	

D Button depressed N Button not depressed Contact block mounting viewed from front

These instructions do not purport to cover all details or variations in equipment, nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the local Siemens sales office.

The contents of this instruction manual shall not become part of or modify any prior or existing agreement, commitment or relationship. The sales contract contains the entire obligation of Siemens. The warranty contained in the contract between the parties is the sole warranty of Siemens. Any statements contained herein do not create new warranties or modify the existing warranty.