LISTED UL Underwriters Laboratories Listed For use on a flat surface of Type 1, 2, 3, 3R, 4, 4X, 12 and 13 enclosures. IP 65

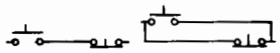
APPLICATION INSTRUCTIONS

HEAVY DUTY OILTIGHT SELECTOR SWITCH UNITS — 10250T/91000T OR E34

ASSEMBLY INSTRUCTIONS

1. Select the desired schematic circuit function from the chart below and note in your cam column the type of contacts, N.O. or N.C., the "A" and "B" circuit locations, and any series or parallel jumper connections that may be required.
2. Choose contact blocks that have the required schematic circuits and assemble in any convenient sequence that fulfills the "A" and "B" circuit location requirements.

   NOTE: Single circuit contact blocks, if used, must be last in the stack and positioned so that the plunger motion is transmitted through.
3. Make the indicated series or parallel jumper connections. (10250T/91000TA70, TA71).



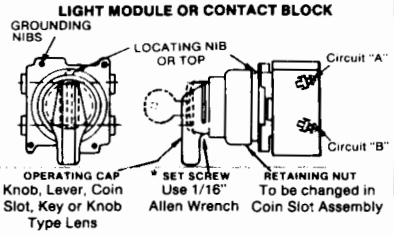
4. If this operator was received without an operating cap, assemble the separately purchased cap and secure with the screws provided.

   NOTES: Single, double and 2NO-2NC contact blocks are available. Six contacts can be stacked in each of the two circuit locations making a maximum of twelve circuits possible.

For additional selector switch explanation ask for manual NU-118.

The two sections of the operating cam of this selector switch work independently, so it is important that the contact blocks be oriented with their plungers in the correct "A" and "B" circuit locations. The sketch below identifies these positions with respect to the locating nib or marked top.

LIGHT MODULE OR CONTACT BLOCK



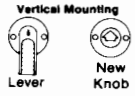
Sketch shows **VERTICAL MOUNTING.** For **HORIZONTAL MOUNTING** loosen the set screw and assemble so that the locating nib is at the left.

ILLUMINATED GASKET INSTRUCTIONS

This operator was shipped with the gasket oriented for **VERTICAL MOUNTING** using lever lens and the new type knob lens.

For **HORIZONTAL MOUNTING** (or VERTICAL MOUNTING using the old type knob) carefully peel the lens gasket, rotate it 90°, and press onto the operator. (Lens screws will now thread into alternate holes).

Lamp Removal Tool For Trans. Type Cat. No.10250TA74 for Full Voltage Type E30KV1.

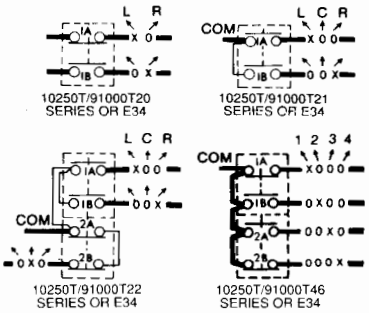


For Replacement Gasket Order PT #32-803

The selector switch operator in this package may not be complete. A knob, lever, coin slot or knob type lens operating cap is required which may be merchandised and packaged separately.

WIRING INSTRUCTIONS

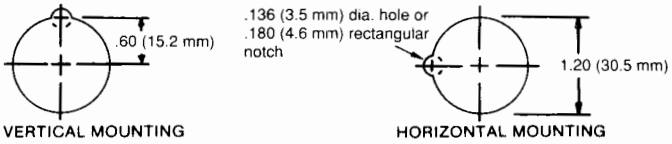
The illustration shows the circuit condition that result for each position of the selector switch.



Heavy lines indicate customers connections
Light lines are factory installed jumpers
X=circuit closed O=circuit open L=Left
C=Center R=Right 1-2-3-4=4 position switch

ASSEMBLY INSTRUCTIONS

USE 60/75°C COPPER CONDUCTORS ONLY

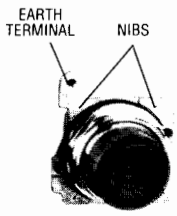


1. Drill mounting hole for vertical or horizontal mounting per one of the figures above.
2. Ensure sealing gasket is in place on the operator. Align location nib of operator with notch in panel and insert operator through mounting hole.
3. Place legend plate and mounting nut over operator. Tighten mounting nut. If applicable assemble buttons to operator. Tighten securely (5 ft-lbs) (6.8 Nm).
4. Torque terminals to 12 in/lbs (1.4 Nm).

For ease of assembly, we recommend the following tools:

91000T/10250TA95	(for 10250T/91000T octagonal nuts, E29 and E30 line)
E22CW	(for 10250T/91000T octagonal nuts, E22, E30 and E34)

GROUNDING OF 10250T/91000T AND E34 COMPONENTS



GENERAL

With any electrical component there is the possibility an external factor (loose wire, moisture, etc.) can cause a short circuit between the component and ground. If the device is adequately grounded, the condition causes the protective fuse or circuit breaker to open and remove the potential. If not, an electrical hazard may remain unnoticed.

GROUNDING NIBS — 10250T

This 10250T device is designed to make direct metallic contact to the rear of the panel (with no intervening spacer washers to interfere with component-to-panel ground continuity). As a further aid in establishing an electrical ground, the device has 4 metal points, "grounding nibs" designed to penetrate most paints or other protective coatings.

etration of these nibs is ndent upon the torque d to the mounting nut. mmended torque is 5 ft-lbs Nm). More or less may be essary to penetrate the specific type and thickness of your panel coating. Test for continuity to ground after installation. If a short circuit to ground does occur, the fault should be corrected and the device replaced.

GROUNDING KITS

For grounding 10250T devices to non-metallic panels or metal panels having excessive surface coating or for grounding E34 with any panel we offer the following grounding kits which provide for a separate grounding circuit, daisy chained between components and then to ground. Use 10250TKG1.

EARTH TERMINALS – 91000T/E34

These devices are supplied with an earth/ground terminal incorporated. These devices have a 6-32 terminal screw and will accommodate ring type terminations for bonding to international specifications.

CONTACT BLOCK SELECTION CHART

Select cam code giving simplest contact block arrangement for circuit(s) required.

2 Position

Combination No	Desired Circuit Operation X = Contacts Closed O = Contacts Open	Contact Blocks Required to Accomplish Circuit Function Top Plunger A	Bottom Plunger B
1	X 0	NC OR	NC
2	0 X	NO OR	NO

3 Position

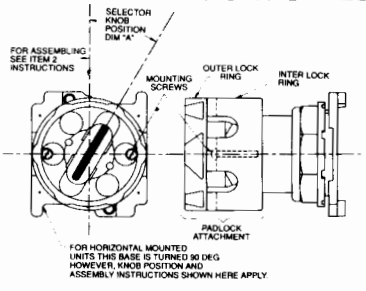
Combination No	Desired Circuit Operation X = Circuit Closed 0 = Circuit Open	Contact Blocks Required to Accomplish Circuit Function (Jumpers must be installed where indicated) Operator with Cam Code #2 Mounting Location Top Plunger A	Bottom Plunger B	Operator with Cam Code #3 Mounting Location Top Plunger A	Bottom Plunger B
1	X 0 0	NO	NC	NO	
2	X X 0		NC		NC
3	X 0 X	NO		NO	NO
4	0 0 X		NO		NO
5	0 X X	NC	NO	NC	
6	0 X 0	NC		NC	NC

4 Position

Combination No	Desired Circuit Operation X = Circuit Closed 0 = Circuit Open	Contact Blocks Required to Accomplish Circuit Function Mounting Location Top Plunger A	Bottom Plunger B
1	X 0 0 0	NC	
2	0 X 0 0		NO
3	0 0 X 0	NO	
4	0 0 0 X		NC
5	X 0 0 X	NC	NC
6	0 X X 0	NO	NO
7	0 0 X X	NO	NC
8	X X 0 0	NC	NO
9	0 X 0 X		NO NC
10	X 0 X 0		NC NO
11	X X X 0		NC NO NO
12	0 X X X		NO NC NO
13	X 0 X X		NO NC NC
14	X X 0 X		NC NO NC

• - Ordinarily, these operators should not be used with overlap and early closing contact blocks (10250T/91000T55, T56, T57 and T58). Contact local C-H sales office on specific applications.

INSTRUCTIONS FOR THE ASSEMBLY OF THE PADLOCK ATTACHMENT E34TA11, 10250T/91000TA11 TO KNOB OPERATED HEAVY DUTY OIL TIGHT SELECTOR SWITCH OPERATORS



1. With the knob of the selector positioned per dimension "A", place the padlock attachment over the knob with the mounting screws located as shown in the illustration.
2. Tighten the mounting screws alternately and uniformly to prevent the attachment from being assembled skewed.
3. The outer lock ring can now be turned to any desired selector position. There are provisions for 5 padlocks.

Dimension "A" — For 2 or 3 position selector switch operators. Locate the knob half way between clockwise and center positions.

LISTED
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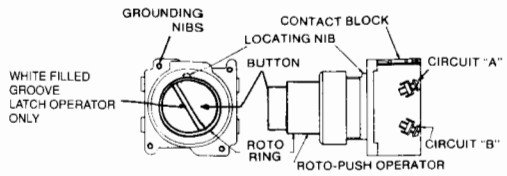
INSTRUCTIONS FOR THE ASSEMBLY OF HEAVY DUTY OILTIGHT ROTO-PUSH UNITS



NOTE: THIS OPERATOR IS NOT TO BE USED FOR EMERGENGY STOP APPLICATIONS.

APPLICATION INSTRUCTIONS

1- The cam code is stamped on the rear of the operator.
2- Determine the number of operating positions of the operator by moving the roto-ring.
3- Examine the contact block for its circuit arrangement.
4- The chart shows the circuit operating sequence when moving the roto-ring from one position to another with the pushbutton depressed or normal.
5- Assemble the contact block to the operator with the circuit corresponding to "A" in the chart mounted behind the locating nib. This is shown in the sketch on this publication.
6- For additional explanation ask for manual NU-118.

INSTRUCTIONS ROTO-PUSH® LATCH OPERATOR

ASSEMBLY INSTRUCTIONS

NOTE: The white-filled groove in the button indicates the roto-ring position. When the roto-ring is in the counterclockwise position the button position is normal and may be depressed independent of the roto-ring. Rotating the ring to the extreme clockwise position depresses and latches the button. The roto-ring has spring return action from any clockwise position except the latched position.

	Collar Position		
Contact Block With *	Button Sequence		
	N	D	Latch Down
N.O. Contact	O	X	X
N.C. Contact	X	O	O

CAM AND CONTACT BLOCK SELECTION FOR 2 POSITION SWITCH

Combi-nations	Collar Position ↖ ↗ Circuit Sequence●		Cam Code 1	Cam Code 2	Cam Code 3	Cam Code 4	Cam Code 5	Cam Code 6	Cam Code 10	Cam Code 11	Cam Code 12	Cam Code 13	Cam Code 14
	N	D	N	D											
1	0	0	0	X	A NO	A NO	.....	.....	A NO	.....	.....	A NO B NO	.....	.....	.....
2	0	0	X	0	.....	.....	.....	A NC B NO	A NC B NO	.....	.....	A NC B NO	A and B NC	A and B NC	A and B NC
3	0	0	X	X	.....	.....	.....	.....	B NO	A NO	B NO	B NO	.....	.....	.....
4	0	X	0	0	B NO	A NC B NO	.....	.....	.....	A NC B NO	.....	.....	B NO
5	0	X	0	X	A NO B NO	B NO	.....	A NO	.....	.....	.....	A NO	B NO	.....	.....
6	0	X	X	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A NC B NO
7	0	X	X	X	.....	.....	A or B NO	B NO	.....	B NO	A NO B NO	A NO B NO	A NC B NO	.....	.....
8	X	0	0	0	.....	.....	A or B NC	B and NC	.....	B and NC	A NC B NC	A and NC B NC	A NO B NC	.....	.....
9	X	0	0	X	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A NO B NC
10	X	0	X	0	A NC B NC	B and NC	.....	A and NC	.....	.....	.....	A and NC	B and NC	.....	.....
11	X	0	X	X	B and NC	A NO B NC	.....	.....	A NO B NC	A NC	.....	A NC B NO	.....	.....	B and NC
12	X	X	0	0	.....	.....	.....	.....	B and NC	A and NC	B and NC	B and NC	.....	.....	.....
13	X	X	0	X	.....	.....	.....	A NO B and NC	A NO B NC	.....	.....	A NO B NC	A NO	A or B NO	A NO
14	X	X	X	0	A and NC	A and NC	.....	.....	A and NC	.....	.....	A NC B NC	.....	.....	.....

CAM AND CONTACT BLOCK SELECTION FOR 3 POSITION SWITCH

Combi-nations	Collar Position ↖ ↑ ↗ Circuit Sequence●					Cam Code 7	Cam Code 8■	Cam Code 9	Cam Code 15	Cam Code 16	Cam Code 17	Cam Code 18
	N	D	N	D	N	D							
1	0	0	0	0	0	X	A NO B NO	A NC B NO	.....	B NO	B NO	.....	A NC B NO
2	0	0	0	0	X	X	.....	.....	B NO	.....	.....	A NO	.....
3	0	0	0	X	0	0	.....	.....	A NO B NC	.....	.....	.....	A NO B NO
4	0	0	0	X	0	X	.....	.....	.....	.....	.....	.....	B NO
5	0	0	0	X	X	X	.....	.....	A NO	.....	.....	.....	.....
6	0	0	X	X	0	0	.....	A NO B NO	.....	.....	.....	.....	.....
7	0	0	X	X	0	X	.....	B NO	.....	.....	.....	.....	.....
8	0	0	X	X	X	0	A NC B NO	.....	.....	.....	.....	.....	.....
9	0	0	X	X	X	X	B NO	.....	.....	.....	.....	.....	.....
10	0	X	0	0	0	0	A NO B NC	A NO B NC	.....	A NO	A NO	B NO	A NO B NC
11	0	X	0	0	0	X	A NO	.....	.....	A NO B NO	A NO B NO	.....	.....
12	0	X	0	0	X	X	.....	.....	.....	.....	.....	A NO B NO	.....
13	0	X	0	X	0	0	.....	.....	.....	.....	.....	.....	A NO
14	0	X	0	X	0	X	.....	.....	.....	.....	.....	.....	A NO B NO
15	0	X	X	X	0	0	.....	A NO	.....	.....	.....	.....	.....
16	0	X	X	X	0	X	.....	A NO B NO	.....	.....	.....	.....	.....
17	0	X	X	X	X	X	A NO B NO	.....	.....	.....	.....	.....	.....
18	X	0	0	0	0	0	A NC B NC	.....	.....	.....	.....	.....	.....
19	X	0	0	0	X	X	.....	A and NC	.....	.....	.....	.....	.....
20	X	0	0	0	X	0	.....	A NC B NC	.....	.....	.....	.....	.....
21	X	0	X	X	0	0	.....	.....	.....	.....	.....	A and NC B NC	.....
22	X	0	X	X	X	X	A NC B NC	A NC B NO	.....	.....	A and NC	B and NC	A NC B NO
23	X	0	X	X	X	0	A and NC	.....	.....	.....	A NC B NC	.....	.....
24	X	0	X	0	X	0	.....	.....	.....	A and NC B NC	.....	.....	A and NC B NC
25	X	0	X	0	X	X	.....	.....	.....	A and NC	.....	.....	A and NC
26	X	X	0	0	0	0	B and NC	.....	A and NC	.....	.....	.....	.....
27	X	X	0	0	0	X	A NO B NC	.....	.....	.....	.....	.....	.....
28	X	X	0	0	X	0	.....	B and NC	.....	.....	.....	.....	.....
29	X	X	0	0	X	X	.....	A NC B NC	A NC B NO	.....	.....	.....	.....
30	X	X	X	X	0	0	.....	.....	B and NC	.....	.....	A and NC	.....
31	X	X	X	X	X	0	A NC B NC	A NO B NC	.....	.....	B and NC	.....	A NO B NC
32	X	X	X	0	X	0	.....	.....	.....	B and NC	.....	.....	B and NC
33	X	X	X	0	X	X	.....	.....	.....	A NO B NC	.....	.....	A NC B NC

■ Limited to 4 contact blocks.
• N=Button in free or normal position.
D =Button depressed.
O =Contacts open.
X =Contacts closed.