

## SAFRAN

## SERIES 10 FEATURES

FEATURING A FOUR LAMP DESIGN, POSITIVE HARD OOUNTING SLEEVE, INDIVIDUAL LAMP COLOR CONTROL, UP TO 4-WAY SPLIT DISPLAY FACE.
The Series 10E Twist-Lite ${ }^{*}$ is a 4-lamp indicator unit with a modular design that permits it to be used as a lighted pushbutton switch or as a word indicator light for design compatibility. Inclusion of a magnetic holding coil for ive us exight lin, give many display posibilitiss. Depression of the front
 ar alternate action in snap-on assembliss. Legends may b everse engraved on the front lens at the factory for uniform eadability and long wear. The special slip-on mounting sleeve provides a positive hard mount particularly useful in equipment designed for extreme measures of shock and vibration. Flush mounting is easily achieved in horizonta or vertical rows, as well as matrix configurations.

The Series 10H Twist-lite is basically the same as the Series $\mathbf{1 O E}$, except it has been qualified to meet the requirements of MIL-PRF-22885.

## EASY FRONT OF PANEL RELAMPING

Lamp replacement is accomplished from the panel front without the use of tools and may easily be done without fea of accidental switch actuation. Simply PULL, TWIST, and REMOVE for complete access to the lamps.

## POSITIVE INDEXING

During relamping, the front end assembly remains connected to the unit's housing by two sides. This important featur precludes the possibility of inadvertently transposing the front end assembly with adjacent units. (Series 10E only). For positive indexing on Series 10H military version, order by part number 10 H 7.

## HOW TO USE THIS CATALOG

The pages of this catalog describe the component parts that make up a Series 10 Switch-Lite or Indicator-Lite unit. To define the units you want, simply select the code that identifies your choice of each required element. The selected codes, when written together become the part number you will use to order the units. A typical part number is illustrated as below.

| 10E1 | - | A1C2 | F2 | $J 3$ | L(AABE) | N2 | R1,V16 | ON/OFF |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SERIES NUMBER PAGES 4 \& 5 | VARIATIONS OF BASIC UNIT PAGES 14 . \& 15 | BASIC UNIT, PAGE 7 | $\begin{gathered} \text { SWITCH } \\ \text { ASSEMBLY, } \\ \text { PAGES } 8 \end{gathered}$ $89$ | LAMPS, <br> PAGE 10 | colored BuLB FILTERS, $\underset{\& 11}{\text { PAGES }}$ | DISPLAY SCREENS, PAGE 11 PAGE |  | LEGEND WORDING PAGES 12 \& 13 |

A sample part number appears at the top of each of the following pages emphasizing the code you are selecting from that page.
The exploded view below illustrates the elements of a typical Series 10 Switch-Lite or Indicator-Lite unit and the pages of this catalog that describe each element.


## SERIES NUMBER - 10E

## 10EA1C2F2J3L(AABB)N2R1,V16 ON/OFF

## COMPLETED UNIT OUTLINE DIMENSIONS

The first three digits of the part number are the Series Number, which identify the unit. In this case the Series Number is «10E», which identifies it as a 4 -lamp indicator unit with snap-on switch capability. The unit's physical size, panel cuto dimension requirements, and mounting arrangement capabilities are described and illustrated on the following pages.


## SERIES NUMBER - 10H

## 10НA1C3F23L(GGRR)N3R1,V16 ON/OFF

COMPLETED UNIT OUTLINE DIMENSIONS
The Series $\mathbf{1 0}$ is basically the same as the Series 10E, except it has been qualified to meet the requirements of MIL PRF-22885. Its outline dimensions are slightly different and are shown on the following diagrams.
The following is a cross reference of the MIL-PRF-22885 part numbers to the Safran Series 10H part numbers. Part

| MLLTARY PART NUMSER | SAFRAN PART NUMEER | TYPE | numbers shown are for units without lamps or color filters. When color filters are required, add color symbols within ( ). For lamp ordering information see page 12. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M22885/9-01 ( XXXX ) | 10HAICIFLL ( )NIR1 | SWITCH TYPE |  |  |  |  |  |  |
| M22885/9-02 (xxxx) | 10HA1CIFFL( ) N1R1 |  | NOTES: <br> 1. Terminals will accept two \#20 (AWG) wire leads. <br> 2. Holding Coil Power Requirements: 3 watts (MAX). <br> 3. For mounting on panels $0.000-$ 0.150 inch thick, the notch on the side of the mounting sleeve should be toward the front of the unit. For mounting on panels $0.150-0.280$ inch thick, the sleeve should be turned arcund so that the notch is toward the back of the unit. <br> 4. When the mounting unit is $90^{\circ}$ from normal, the top of the unit shall appear on right side as viewed from the panel front. |  |  |  |  |  |
| M22885/-0-03 (xxxx) | 10HA1CIFFL ( ) NiR1 |  |  |  |  |  |  |  |
| M22885/9-04 (xxxx) | 10HAICIF4L( ) N1R1 |  |  |  |  |  |  |  |
| M22885/9-05 (xxxx) |  |  |  |  |  |  |  |  |
| M22885/9-06 (XXXX) |  |  |  |  |  |  |  |  |
| M22885/9-07 ( $\times$ XXX) |  |  |  |  |  |  |  |  |
| M22885/9-08 (XXXX) |  |  |  |  |  |  |  |  |
| M22885/9-09 (XXXX) | 10HA1CIFIL ( ) N2R1 |  |  |  | 1. Mone marr cicion wirn |  |  |  |
| M22885/9-10 (xXXX) | 10HA1C1F2L( ) N2R1 |  |  |  |  |  |  |  |
| M22885/9-11 (XXXX) | 10HA1CIF3L( ) N2R1 |  |  |  |  | \% |  |  |
| M22885/9-12 (XXXX) | $10 \mathrm{HA1CIF} 44 \mathrm{~L}$ ) N2R1 |  |  |  |  |  |  |  |
| M22885/9-13 ( XXXX ) | 10HA1C2FLL ( ) N2R1 |  |  |  |  |  |  |
| M22885/9-14 (XXX) | 10HA1C2F2L( ) N2R1 |  |  |  |  |  |  |
| M22885/9-15 (XXXX) | 10HA1C2F3L( ) N2R1 |  |  |  |  |  |  |  |
| M22885/9-16 (XXXX) | 10HAIC2F4L( ) N2R1 |  |  |  |  |  |  |  |
| M22885/9-17 (XXXX) | 10HAICIFLL( ) N3R1 |  |  |  |  |  |  |  |
| M22885/9-18 (XXXX) | 10HA1CIF2L( ) N3R1 |  |  |  |  |  |  |  |
| M22885/9-19 ( XXXX ) | 10HA1CIFSLC ) N3R1 |  |  |  |  |  |  |  |
| M22885/9-20 (XXXX) | 10HA1CIF 4LL ( ) N3R1 |  |  |  |  |  |  |  |
| M22885/9-21 ( XXXX ) | 10HA1C3FLC ) N3R1 |  |  |  |  |  |  |  |
| M22885/9-22 (xxxx) | 10HA1C CFF2L ( ) N3R1 |  |  |  |  |  |  |  |
| M22885/9-23 (xxxx) | 10HA1C3F3L( ) N3R1 |  |  |  |  |  |  |  |
| M22885/9-24 (XXXX) | 10HA1C3F4L( ) N3R1 |  | PANEL CUTOUT DIMENSIONS FOR SERIES 10 H |  |  |  |  |  |
| M22885/9-25 (xXxx) | 10HA1C3FIL( ) NR1R1 |  |  |  |  |  |  |  |  |
| M22885/--26 (XXXX) | 10HA1C3F2L( ) NR1 |  |  |  |  |  |  |  |  |
| M22885/9-27 (XXXX) | 10HA1C3F3L( ) N1R1 |  |  | ${ }_{115}$ |  |  |  |  |
| M22885/9-28 (xxxx) | $10 \mathrm{HAIC3F4L}$ ( ) N1R1 |  |  |  |  |  |  |  |
| M22885/10-01 (xXXX) | 10HA2CIL( ) NIR1 | INDICATOR TYPE |  |  |  |  |  |  |
| M22885/10-03 (xxxx) | 10HA2CIL( ) N2R1 |  |  |  |  |  |  |  |
| M22885/10-04 ( XXXX ) | 10HA2C2L( ) N2R1 |  |  | No. Of UNTIS A | 8 | No. OF UNTS | A |  |
| M22885/0-05 (xxxx) | 10HA2CLL( ) N3R1 |  |  | ${ }_{2}^{11155}$ |  | ${ }_{7}^{6}$ |  |  |
| M22885/0-06 (xxxx) | 10HA2C3L ( )N3R1 |  |  | ${ }_{\substack{3.745 \\ 4.755}}$ |  |  |  |  |
| M22885/10-07 ( (xxxx) | 10HA2C3L( ) NIR1 |  |  |  |  |  |  |  |

## MOUNTING 1OE \& 1OH

## 10EAIC2F2J3L(AABB)N2R1,V16 ON/OFF \& 1OHA1C2F2J3L(GGRR)N3R1,V16 ON/OFF

## SWITCH=LITE UNITS

Combined capability of both indication and switching are available in this unit. Depression of the front lens actuates the switch contacts, which are completely isdependent control of illumination. Switches are available in momentary or alternate action, 2PDT or 4PDT.

NDICATOR UNITS
Applications requiring indication only are easily accomplished by the indicator unit, which has a limiting clip installed to prevent the front lens from being depressed. This unit is readily converted to a Switch-Lite by removal of the clip and installation of the desired switch assembly.

HOLDING COIL UNITS
Numerous electrical interlock, lock-in, and lock-out circuits are made possible by including a magnetic holding coil with the Switch-Lite unit. Depressing the front lens after the coil has been energized causes the switch contacts to remain actuated until the coil voltage is removed.

NTERNALLY BUSSED LAMP CIRCUITS REDUCE SOLDERING, SAVE NSTALLATION TIME AND COST
The various lamp circuits for versatile display use are internally bussed to eliminate several soldering operations and provide additional flexibility in design.
ypical lamp circuits are shown in the following table.

| basic unit orderimg cook |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lamp circuit |  |  | modeatior | Holows coll unit |  |  |
|  |  | 6volt |  | 12 Volt | 28 vout |
|  | (\%): |  | ${ }^{\text {alcr }}$ | 42 Cl | ${ }^{\text {acc }}$ | A5C1 | ${ }^{13 C 1}$ |
|  | \%or | ${ }^{1162}$ | ${ }^{2222}$ | a4cz | A5c2 | A3c2 |
|  | -\%tor | ${ }^{\text {alc }}$ | A223 | accs | asc ${ }^{3}$ | asc3 |
|  | \%\%\% | A1C4 | A2C4 | atca | ${ }^{4554}$ | 4364 |
| 5 Comuen aboun | -5\%\% | alcs | ${ }^{1225}$ | a4cs | ascs | ${ }^{1355}$ |
|  | 50\%9 | ${ }^{\text {alc }}$ | ${ }^{1226}$ | Aacs | ${ }_{\text {asce }}$ | ${ }^{1366}$ |
|  | tetit | alcr | A2C7 | a4c7 | A5c7 | ${ }^{1307}$ |
| 8, | - | A1C8 | ${ }^{12 C 8}$ | A468 | A5c3 | ${ }^{138} 8$ |
|  | เู่ำ. | atcs | ${ }_{\text {A2 } 29}$ | Aacs | Asc9 | Aз99 |


| Series 10H |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| asalc unit ordering coos |  |  |  |  |  |  |
| Lamp circuit |  |  | Imoleator | Hololng coll unt |  |  |
|  |  | 6 volt |  | 12 Vou | 28 voL |
| $1{ }^{\text {cosem }}$ | \% $0^{4}$ |  | ACP | A2C1 | A 4 C1 | A 561 | ${ }^{\text {asc }}$ |
|  | \%20\% | ${ }^{162}$ | ${ }^{222} 2$ | ${ }_{\text {atc }}$ | 4862 | ${ }^{\text {A }} 82$ |
|  | \%otem | ${ }^{\text {Alc3 }}$ | A2C3 | A4c3 | A6c3 | ${ }^{\text {asc3 }}$ |
|  | \% \% \% | ${ }^{\text {a }} 164$ | A2C4 | A AC4 | 1564 | ${ }^{1304}$ |
| $5{ }^{\text {comul }}$ (comon | -5t\% | A1c5 | A2cs | atcs | ascs | ${ }^{\text {ascs }}$ |
|  |  | ${ }^{\text {alcs }}$ | A2C6 | AAC6 | A566 | ${ }^{33 C 6}$ |
|  | totat | ${ }^{\text {alcr }}$ | A2C7 | A4c7 | 4507 | 4307 |
|  |  | A173 | A2CB | Afcs | 1868 | ${ }_{\text {asc }}$ |
|  | +29\% | A199 | A2c9 | A4cs | 1869 | 4309 |



## SPACER BARRIERS

These spacer barriers provide additiona separation between units, and are available stacks or horizontal rows are offered. Barrier are ordered separately from unit.

## SWITCH ASSEMBLIES - SERIES 10E

## 10EA1C2F2J3L(AABB)N2R1,V16 ON/0FF

SNAP-ACTION CONTACTS
Switch assemblies feature a positive snap-action design that assures instantaneous contact transfer, which is perceptible to the touch at the instant of actuation. The force required to switch is sufficient to prevent accidental switching.

BIFURCATED CONTACTS
Bifurcated contacts multiply reliability up to 40 times compared with single-point contacts. This feature uses two parallel contact points, either of which can handle the rated load, insuring against effects of particulate contamination. Offers more reliable dry circuit switching.

SWITCH RATINGS

## SNAP-ACTION CONTACTS

SILVER: Rated for 5 amps at 125 or 250 volts A.C. The 30 -volt D.C. rating is: Inductive, 3 amps; Resistive, 5 amps . GOLD: The 30 -volt D.C. rating is: Inductive, $1 / 2 \mathrm{amp}$, Resistive 1 amp

## BIFURCATED CONTACTS

GOLD: The 30 -volt D.C. rating is: Inductive $1 / 2 \mathrm{amp}$, Resistive 1 amp .

| BASIC UNIT TYPE | MOMENTARY ACTİN |  | alternate action |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2PDT | 4PDT | 2PDT | 4PDT |
| Snap-action silver | F1 | F2 | F3 | F4 |
| Snap-action gold | F10 | F11 | F12 | F13 |
| Sliding-bifurcated gold | F38 | F39 | F40 | F41 |

NOTE: For Series 10H Switch Assembly ordering code see Page 9.


## SWITCH ASSEMBLIES - SERIES 1OH

## 10HA1C3F2J3L(GGRR)N3R1,V16 ON/0FF

SNAP-ACTION CONTACTS
Switch assemblies feature a positive snap-action design that assures instantaneous contact transfer, which is perceptible to the touch at the instant of actuation. The force required to switch is sufficient to prevent accidental switching.

SWITCH RATINGS (AT SEA LEVEL)

## SNAP-ACTION CONTACTS

SILER: Rated for 5 amps at 115 volts A.C. for both inductive and resistive loads. The 28 -volt D.C. rating is: Inductive, 3 amps; Resistive, 5 amps.

| SWITCH CONTACTS | MOMENTARY ACTION |  | ALTERNATE ACTION |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2PDT | 4PDT | 2PDT | 4PDT |
| SNAP-ACTION SILVER | F1 | F2 | F3 | F4 |
| MILITARY PART NUMBER | M22885/11-O1 | M22885/11-O2 | M22885/11-03 | M22885/11-04 |



## 10EA1C2F2J3L(AABB)N2R1,V16 ON/OFF

## LAMP TYPES

$\mathrm{T}-13 / 4$ midget flange base incandescent lamps are available n 6 , 12 , and 28 volts. A special neon lamp with or without a built-in current limiting resistor is also available for 115 VAC
applications, but is only recommended for use with red or amber colors. See the accompanying table for part number ordering codes.
Note: Neon lamps without built-in resistor require external current limiting resistance.
When ordering as a separate item, precede the above code number by basic «10E» or «10H» to make part number.

## COLORED LAMP FILTERS

Individual lamp color control is provided by silicone rubber fillers, which fit over each lamp socket. These high efficiency filters are available in amber, blue, green, red, white, and yellow.
The chromaticity of each color has been carefully selected to insure maximum operator response and discernibility between colors.

PROJECTED COLOR
Prior to illumination the black letters engraved on the clear front lens are easily read against the white translucent display screen background. When energized, the background Illuminates in color. Projected color also provides for full display, two
indications.


| 6 Volt Lamps | 12 Volt lamps | $\underset{\substack{28 \text { VOLT } \\ \text { LAMPs }}}{ }$ | 115 VAC NEON LAMPS WITH RESISTORS |  |
| :---: | :---: | :---: | :---: | :---: |
| л | J2 | J3 | J4 | ло |



COLORED LAMP FILTER ORDERING CODES All colors apply to Series 10E. All colors, except amber (A), apply to Series $\mathbf{1 0 H}$, military version.

| color | CODE NUMBER | MLITARY PART NUMEER |
| :---: | :---: | :---: |
| Amber | L(A) |  |
| blue | L(B) | M22885/12-001 |
| Green | L(G) | M22885/12-002 |
| RED | L(R) | M22885/12-003 |
| WHITE (see Note 2) | L(w) | M22885/12-004 |
| YELLOW | L(Y) | M22885/12-005 |

NOTES:

1. Where more than one color is desired within the same unit, denote by including within the parenthesis, ( ), all colors desired. Priority for actual location in the unit when viewed rom the front of the panel is: upper left, upper right, lower left, lower right.
Where two colors are indicated, and the display screen callout is for a full display, the first color will be upper left, lower right whe second color will be upper right, lower left.

## DISPLAY SCREENS FOR SERIES 10

## 10EA1C2F2J3L(AABB)N2R1,V16 ON/OFF or 10HA1C3F2JJL(GGRR)N3R1,V16 ON/OFF

The advantages of individual lamp color control and projected color is further enhanced by the display creen which is available in all possible display unlimited number of indication arrangements.

WHITE TRANSLUCENT DISPLAY SCREENS
The translucent display screen evenly diffuses the light across the entire front lens. Variations in background color
are effected through the use of color lamp filters. Where erizontally or vertically-split displays are desired, color lamp filters can provide a different color in each part of the display with no light leakage between displays because of a unique divider arrangement. Screen appears white until illuminated and then appears in color.
Series 10 E
translucent white display screen code numbers


Series 10 H

## TRANSLUCENT WHITE DISPLAY SCREEN CODE NUMBERS




COLORED DISPLAY SCREENS
The normally translucent white display screens are also in any combination of colors for split display. Colored lamp filters are not required when using colored display screens. Screen appears in color when not illuminated and glows brightly in color when illuminated.


## LEGENDS - SERIES 10E \& 10H

## 10EA1C2F2J3L(AABB)N2R1,V16 ON/OFF

TRANSMITTED COLOR (SLAB FILTERS)
The front lens with required engraving is ordered by following the callout «RIV» with the engraving configuration number as selected from those below.

After this, the actual wording is added, using commas between rows of lettering and a straight vertical line between splits. Priority for segments of split displays when viewed from the front of the panel is upper left, upper right, lower left, lower right. Examples are shown at the right.


BLANK FRONT LENS
When a non-engraved front lens is required, the code number «R1» is used, eliminating the remaining part of the engraved front lens callout.
separate engraved lens
Where separate engraved lenses are required, precede the complete engraved front lens callout with the basic «10E» or «10H».

ENGRAVING SPECIFICATIONS
Front lens is reverse engraved 0.120 inch high with 0.020 inch stroke and filled with a special black filler. The engraving is done on the back face of the lens for appearance and long life.




## FOUR COLOR DISPLAY FOR SERIES 1OE OR 1OH

## 10E10A1C1F1J3L1(ARGW)N10R10, V12 LAUNCH

The four-color Twist-Lite is a unique indicating light offering four separate color indications on the full display screen of each unit. The different colors are obtained by four individual lamp circuits in the same Twist-Lite unit. Each lamp is furnished with a colored bulb filter to produce the desired indicating color. A prismatic lens arrangement is placed between the indicating lamp and legend plate. The design of the prism has been made to offer maximum uniform ligh intensity integrated across the full display face with only one lamp illuminated. In this manner, as each of the four lamp bulb filter over the energized lamp.

This unit incorporates several special features in addition to those of the Safran standard Twist-Lite. These specia items include a high reflective white coating to the housing interior surfaces as well as a white nylon bulb board on the front end assembly.

The use of white reflecting surfaces offers maximum light reflectance for overall intensity on the legend face
A unique front element is provided on the prismatic lens assembly. This front element has been molded with a clear viewing area surrounded by a black integrally mounted frame. With this arrangement all extraneous light leakage is eliminated from the sides of the lens assembly.


| WHEN ORDERED AS A PART OF A COMPLETE UNIT |  |
| :---: | :---: |
| WHEN ORDERED AS A SEPARATE ASSEMBLY. |  |
| WHEN <br> ORDERED AS REPLACEMENT PARTS. |  |
| ENGRAVED LEGEND ORDERED AS REPLACEMENT PARTS. | *MAXIMUM OF THREE LINES OF ENGRAVING ONLEGEND PLATE OF 4 COLOR TWIST-LITE ONLY. |

## SWITCH GUARD \& RF1 SCREEN SERIES 10E \& 10H

## 10EA1C2F2J3L1(AABB)M1N2R1,V16 ON/OFF

SWITCH GUARD
ull protection against inadvertent switch actuation is provided by lear plastic cover hinged at the top and spring loaded to the closed position. The attachment may be easily installed in the field on any Twist-Lite. To install, pull out the front end assembly and loosen the Twist-Lite frame and panel. When properly aligned, the Switch Guard retainer is slipped onto the frame. The order number for the Twist-Lite switch Guard is 10E534 or 10H534.
RFI SCREEN
Added protection against unwanted radiated and conducted RFI passage through the Twist-Lite panel cut-out is attained through the the display screen. The silver-plated beryllium conper screen make contact with the stainless steel housing in four separate areas. The RFI Screen is available for full, vertical, horizontal, three, or four-way
solit displays. The RFI Screen and the display screen are installed as an integral part of the front-end assembly during the manufacturing. The Screen may be included as part of either a completed Twist-Lite assembly or a front-end assembly with display screen.

RE PART NUMBERS*

|  | TYPE OF UNIT |  |  |
| :---: | :---: | :---: | :---: |
| display screen | Inoicator | switch | holding coll |
| FULL DISPLAY | 10 oror 10 H 557 | 10 E or 10 H 613 | 10 E or 10 H 647 |
| Horlzontal split | 10 E or $10 \mathrm{OH58}$ | 10 E or 10 H 614 | 10 or 10 OH 648 |
| VERTICAL SPLIT | 10 or or 10 H 559 | 10 E or 10 H 615 | 10 obr 10 H 649 |
| 3-WAY SPLIT | 10E or 10H 560 | 10 E or 10 H 616 | 10 ofor 10 H 650 |
| 3-WAY SPLIT | 10 obr 10 H 561 | 10 E or 10 H 617 | 10 E or 10 H 651 |
| 3-WAY SPLIT | 10 E or 10 H 562 | 10 E or 10 H 618 | 10 of of 10 H 652 |
| 3-WAY SPLIT | 10 E or 10 H 563 | 10 E or 10 H 619 | 10 E or 10 H 653 |
| 4-WAY SPLT | 10E or 10H 564 | 10 Eor 10 H 620 | 10 E or 10H 654 |

 Example:



EFFECTIVE, SIMPLIFIED 2-PART ASSEMBLY
The Drip-Proof Seal is an effective accessory to the basic Series 10 Twist-Lite unit for applications where adverse environmental conditions could prove destructive to equipment in which push-button switching devices are employed. Comprised of two parts, this assembly provides parts are (1) a flexible transparent plastic front covered seal and (2) a plastic retainer.

QUICKLY, EASILY INSTALLED
Installation of the Drip-Proof Seal is easily accomplished during the mounting of the Twist-Lite unit. Before the during the mounting of the Twist-Lite unit. Before the retainer is slipped over the indicator unit from the back. It is slid forward as far as it will go to frame the flange of the unit housing.
The Twist-Lite unit is then mounted in the normal manner After the Twist-Lite has been mounted to the panel, the front seal can be simply pressed into place over the flange of the retainer.

NO HINDRANCE OF LEGEND READABILITY OR SWITCH ACTUATION

The properties of the front seal yield a virtually transparent, fexible cover that permits free movement of the switching mechanism with the application of normal pressure Legends can be easily read before or during illumination.

QUICK ACCESS TO FRONT END ASSEMBLIES
The front seal can be simply removed at any time by snapping it off from the retainer, permitting removal of change of colored lamp filters or for front lens legend eplacement No tools are required for any of the changes.

NO SPECIAL LEGEND PLATES REQUIRED
Since it is made from clear plastic material, the Drip-Proof Seal can be used with standard Series 10E Twist-Lite reverse engraved front lenses.


## MASTER CONTROL TEST CAPSULES SERIES 10E \& 10H

## 10EA1C1D10F1J1L(AAAA)N1R1,V12 LAUNCH

Components required for Master Lamp Verification are encapsuled in a test control capsule which mounts on spring clips, located on the back of the Series 10 E Twist-Lite unit. This capsule eliminates the need for external circuitry and is available in a wide range of circuits, providing negative and positive test inputs for all available display screen styles. Spring clips are also provided on the back of the capsule, to allow attachment of switch assemblies.

ORDERING INFORMATION
The Twist-Lite series 10E Diode Test Capsule may be ordered as part of a completed assembly or as a replacement part Both methods of ordering are shown below.


## QUALIFICATION TO MIL-PRF-22885

The Series 10 Twist-Lite Switches have been granted qualification approval to MIL-PRF-22885. To order MIL-PRF-22885 qualified units, the part number should include the letter " H " after the series number 10 .
The list of Safran military specification part numbers for the Series 10 H Switches is listed on page 5 of this catalog. Additional military pecification part numbers for these switcha need for more information on these Military Qualified Products and its components, please consult your Safran representative or call the factory

