

TELLITE
SERIES
80E

RED AMBER GREEN BLUE WHITE



NEON

NEON

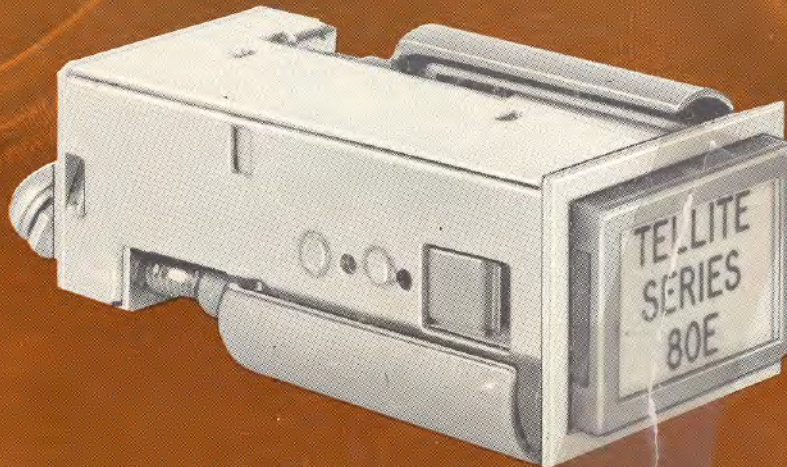
NEON

FULL DISPLAY	FULL DISPLAY	TWO COLOR	TWO COLOR
HORIZ SPLIT	1 2	VERTSPLIT	1 2

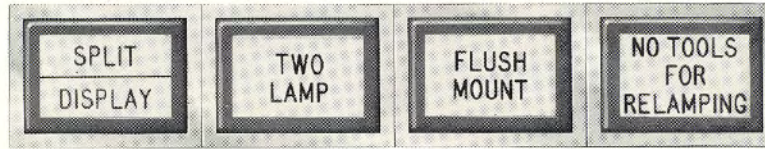
MASTER SPECIALTIES SERIES 80E

PILOT LITE

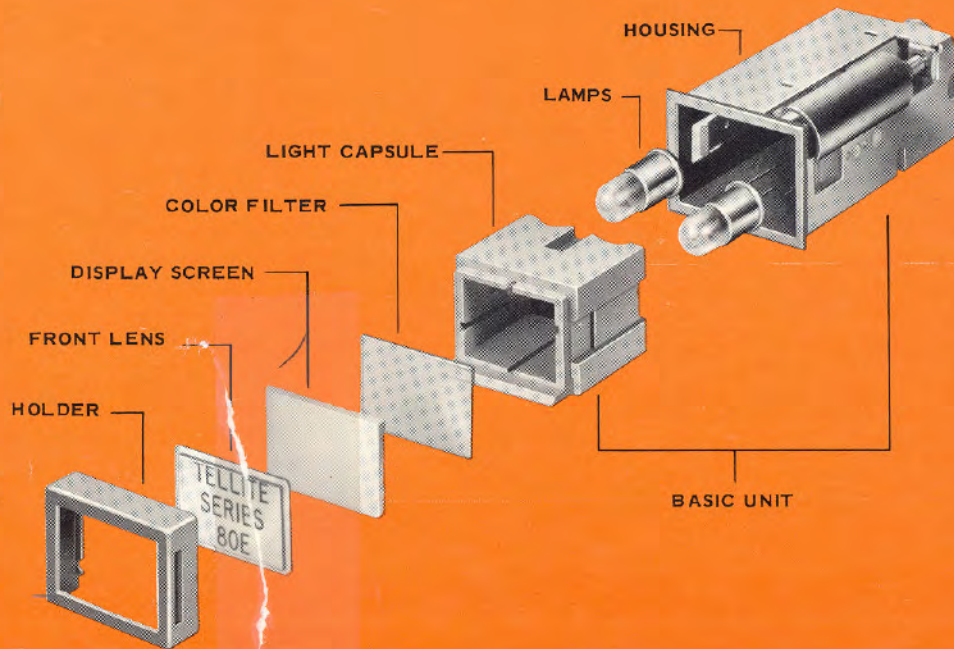
TELLITE



TELLITE Two-Lamp Pilot Light



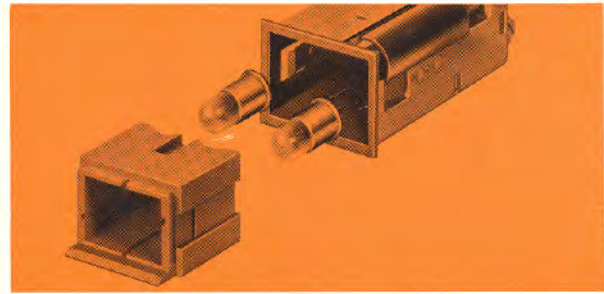
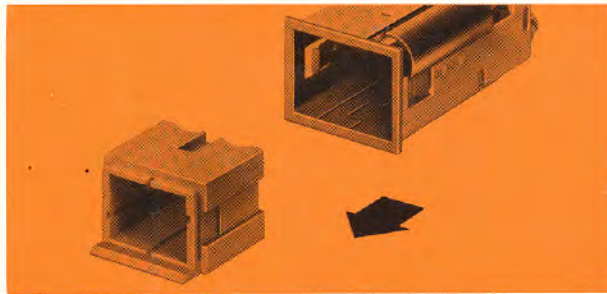
Tellite is a two-lamp, flush-mounted pilot light. The two lamps, connected in parallel, provide for two-lamp reliability or allow for two separate lighted indications within the one unit. The clear front lens carries a reverse-engraved legend, which not only presents more legible characters but also permits cleaning of the lens without effacing the legend. A translucent display screen evenly diffuses the light across the entire front lens. Variations in background color are effected through the use of color filters. Where horizontally- or vertically-split displays are desired, color filters can provide a different color in each part of the display with no light leakage between displays because of a unique divider arrangement. Another option is available through the use of a prismatic arrangement which provides for a full display in each of two separate colors. The lamps and/or lens assembly may be installed or removed from the panel front without the use of any tools. Mounting is easily accomplished from the panel front and does not necessitate special brackets.



ACTUAL SIZE

No Tools Required for Lamp Replacement

Lamp replacement is accomplished from the panel front without the use of any tools. The light capsule, which holds the lamps and front lens, is held to the unit housing by spring clips which allow it to be removed for quick and easy lamp replacement.

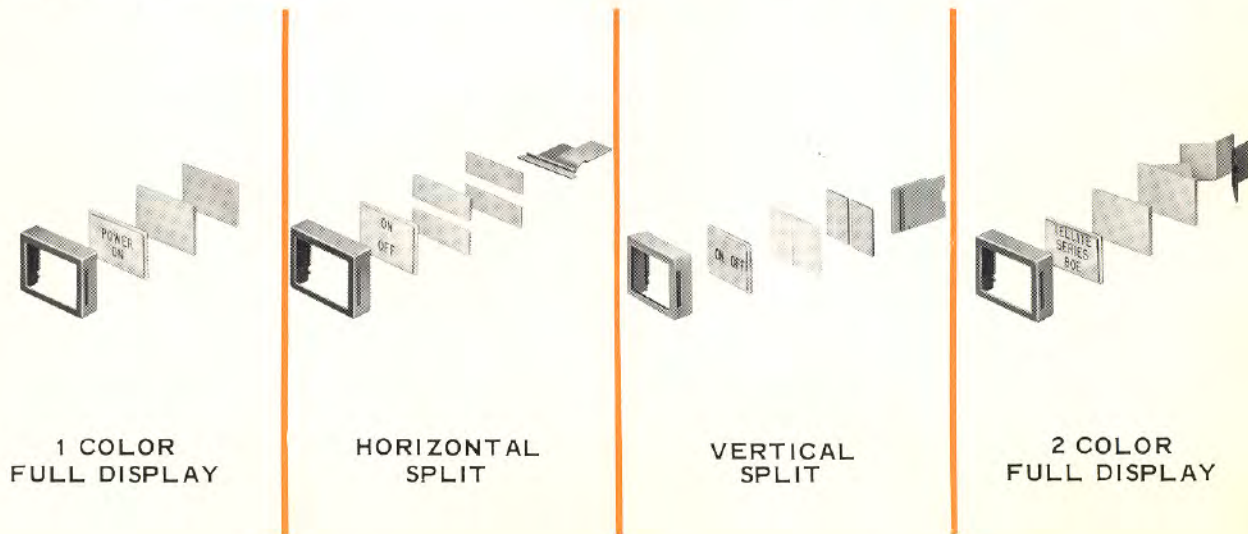


Projected Color Permits Easy Reading

Various projected colors may be obtained through the use of colored filters. These colored filters are available for each of the lens arrangements described below in amber, blue, green, red, white, or yellow. The color filter, being between the lamps and the display screen, provides for projected colors when the lamps are energized. The display screen is translucent white. The lens engraving is filled with a special black filler so that the inscription is readable either before or during illumination.

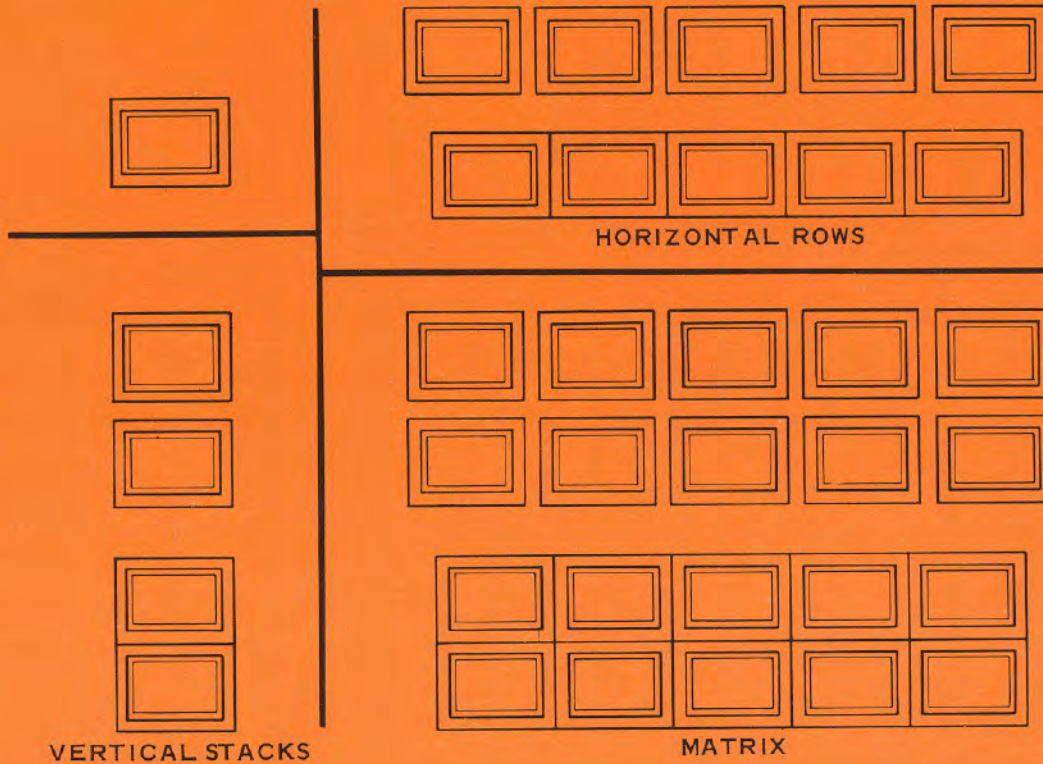
Versatile Lens Arrangements

In addition to numerous engraved lens arrangements which are available, the lens assembly is also offered as a vertically or horizontally split display. The split lens assembly allows one lamp to illuminate each half of the display, thus providing two indications in the same unit. A special full display lens assembly is also available which uses one lamp for each color and provides illumination of the entire lens when either lamp is illuminated.



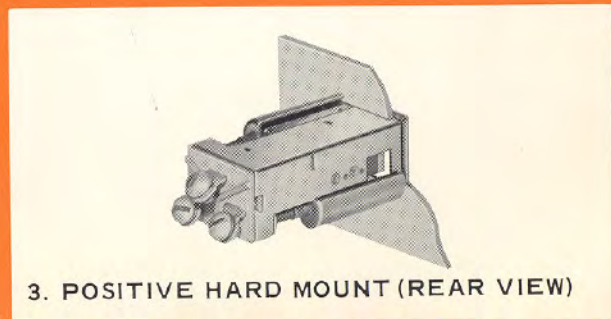
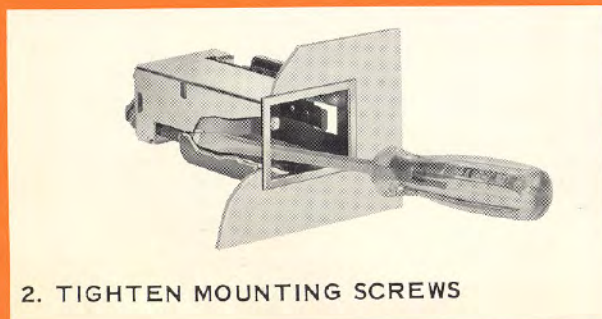
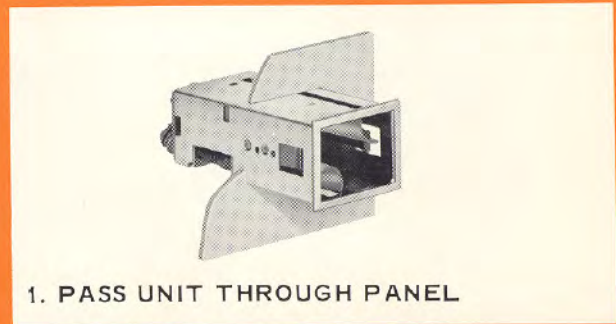
Unlimited Mounting Arrangements

Designers are afforded infinite flexibility in panel layout arrangements. The units may be mounted singularly with no limitation as to room required between other associated equipment. Vertical stacks or horizontal rows are readily accomplished and allow single elongated panel cutouts rather than individual cutouts for each unit. Any unit within a group may be installed or removed without the necessity of disturbing adjacent units. The unit has the further capability of being mounted in matrices.



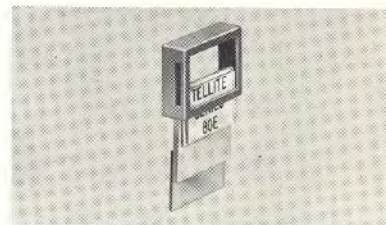
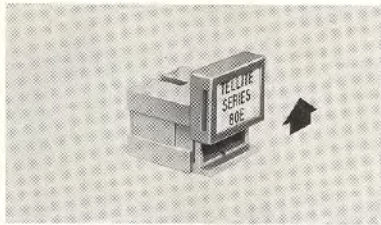
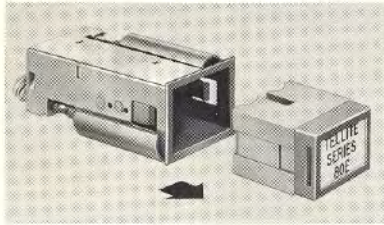
NO SEPARATE HARDWARE FOR MOUNTING

The mounting is designed as an integral part of the main housing and consists of special mounting sleeves located in opposite corners. Removing the front-end assembly gives access to the screw heads which can be used to tighten the mounting sleeves in position to contact the rear of the panel. Hard mounting is attained, yet no screw heads show from the panel front; there is no loose or special mounting hardware; and the mounting is completely contained within the outline dimensions of the unit's front face. The unit will mount in panels .031 to .250 thick.



Removable Lens Assembly

The lens assembly is easily removable for changing display arrangement, color filter or legend configuration. Step 1 - Remove light capsule from housing by simply pulling forward. Step 2 - Slide holder up, which frees the lens, diffuser and color filter.



Ordering Information

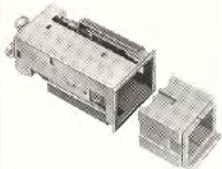




CODED CALLOUT PROVIDES EASE OF ORDERING

The completed unit, including the engraved inscription, may be ordered by a single coded callout. This system eliminates the need for individually ordering each item required for a completed unit which in turn would necessitate the customer having to assemble the items once received. The engraving service eliminates the customer's need for in-house engraving equipment or additional sub-contracting.

CODED CALLOUT SYSTEM

Each item required for a completed unit is assigned a code number. By selecting the code number callout for each item required and then placing these in alphabetical sequence following the series number, "80E," a completed unit callout is derived. An example is shown below:

ITEMS COMPRISING COMPLETED UNIT

SERIES 80E	BASIC UNIT A1	LAMPS C3	COLOR FILTERS F2 (AB)	DISPLAY SCREEN DIVIDER, HOLDER J2	FRONT LENS & ENGRAVING L1N16 ON OFF
TELLITE	 HOUSING AND LIGHT CAPSULE	 2 EA. 28 VOLT LAMPS	 1 EA. AMBER 1 EA. BLUE	 HORIZONTAL SPLIT	

ELIMINATION OF ITEMS

Where one or more items comprising a completed unit are not required, omit the callout for that item.

ORDERING SEPARATE ITEMS

Where separate items are required, precede an

item's callout with the basic "80E" to obtain the correct order number for that item. Lamps, when ordered separately, are always considered 1 each rather than the 2 each as supplied in the unit. Where 2 each lamps are required, for example, order as follows: "2 each, 80EC3."

ALTERNATE ORDERING METHOD

An alternate ordering method is available wherein all items required for a completed unit are included on a specification sheet which is maintained by MSC. Each completed unit is assigned a dash number following the basic specification number set up for each customer. This method reduces the size of the completed unit part number to seven digits; however, this method is not coded.

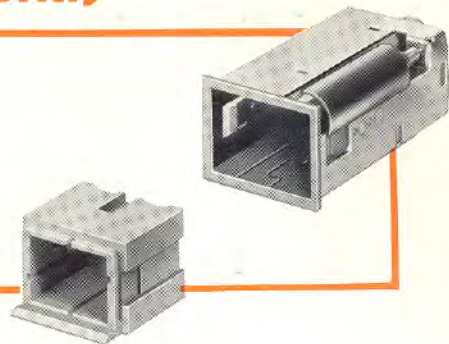


Ordering Information (Cont.)

BASIC UNIT CODE NUMBER *

A1

*When ordering as a separate item, precede the above code number by the basic "80E."



LAMP CODE NUMBERS *

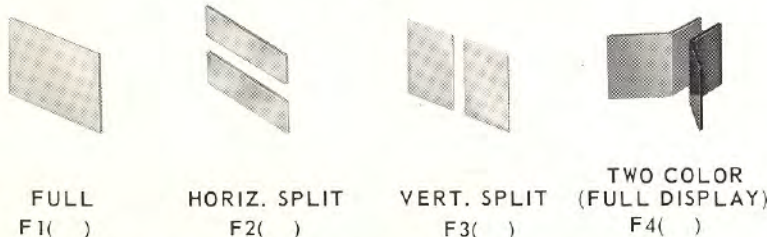
- C1 6 Volt
- C2 12 Volt
- C3 28 Volt
- C4 115 Volt Neon W/Resistor
- C10 115 Volt Neon, No Resistor



*When ordering as a separate item, precede the above code number by the basic "80E."

COLORED FILTER CODE NUMBERS *

The color filter callout is followed by the color code letter (in parentheses). In the case of split or two color displays, include the color code letter for both colors. First color code letter will indicate the color illuminated by the lamp in the upper left-hand corner when viewed from front of panel.



Color Code Letter

A	Amber	R	Red
B	Blue†	W	White†‡
G	Green†	Y	Yellow†

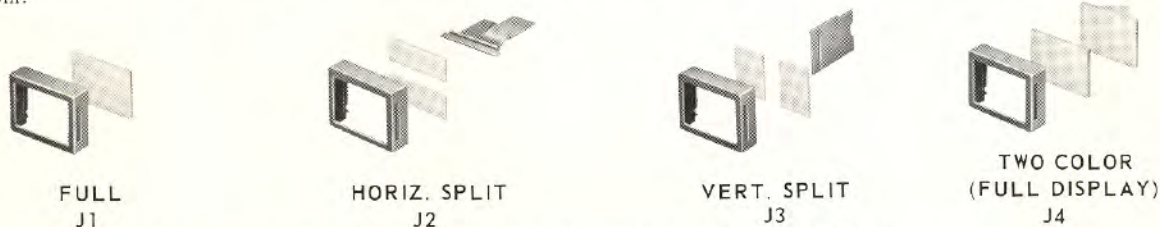
† Not recommended for use with 115 VAC neon lamp.

‡ Light blue for white illumination.

*When ordering as separate item, precede above code number by basic "80E."

DISPLAY SCREEN, DIVIDER, AND HOLDER CALLOUT

The display screen callout also includes the holder and, where applicable, the divider or "two-color" prism.



*When ordering as a separate item, precede the above code number by the basic "80E."

FRONT LENS AND ENGRAVING CODE NUMBERS

The front lens with required engraving is ordered by following the callout "L1N" with the engraving configuration number as selected from page 7. After this, the actual wording is added, using commas between rows of wording and a straight vertical line between splits. An example is shown on page 7.

NON-ENGRAVED LENS

When a non-engraved lens is required, the code number "L1" is used, eliminating the remaining part of the engraved lens callout.

ENGRAVING SPECIFICATIONS

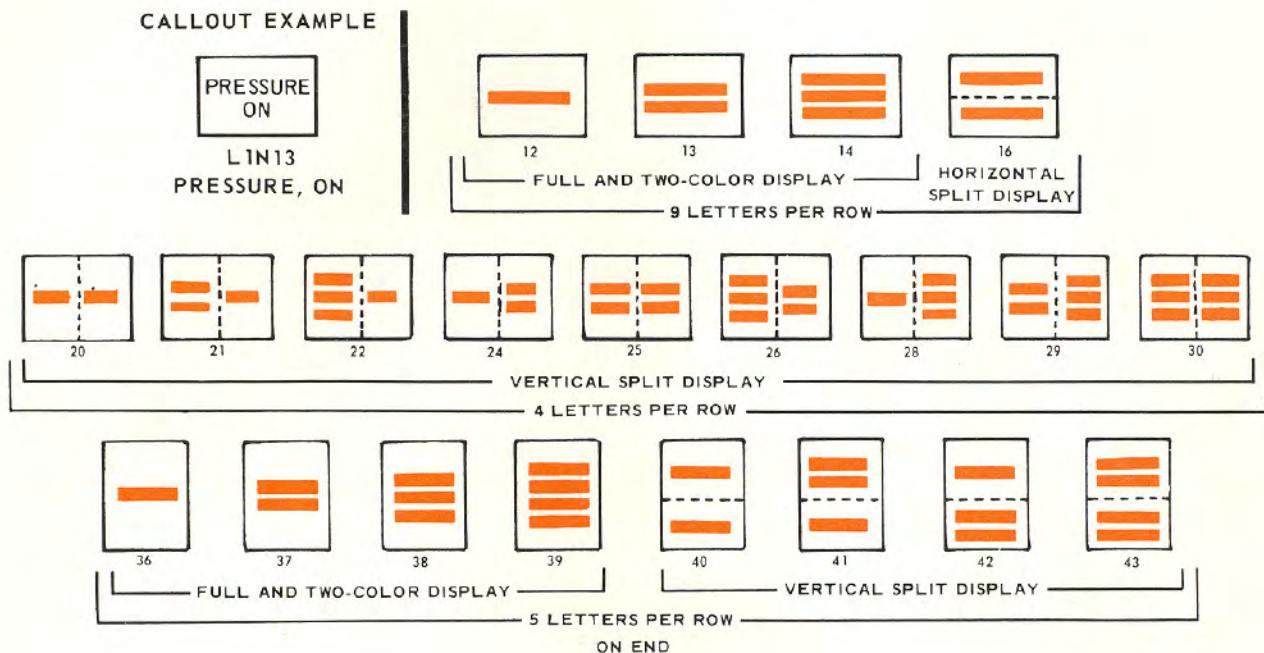
Letters are engraved .110 high with .017 stroke

and filled with a special black filler. The engraving is done on the reverse side of the lens.

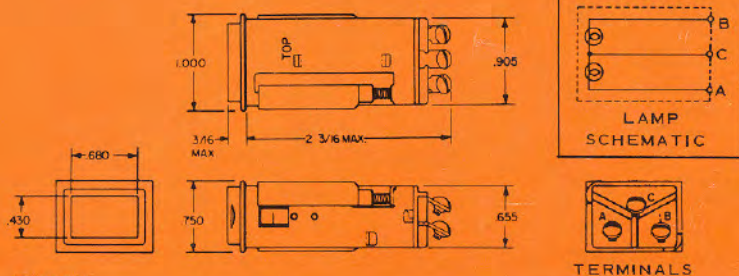
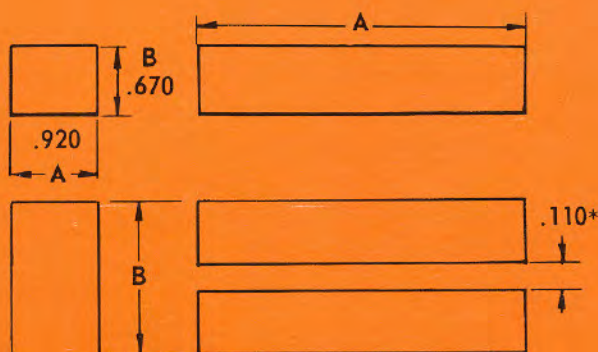
SEPARATE ENGRAVED LENSES

Where separate engraved lenses are required, precede the front lens and engraving code number callout with the basic "80E."

Engraving Configurations



Completed Panel Cutout and Unit Outline Dimensions



NOTES:

1. When mounting unit 90° from normal, side marked "TOP" is on the left, as viewed from the front of the panel.
2. Terminals are combination screw and solder type and will accept two No. 20 AWG wire leads.
3. When viewed from the front of the panel, lamp terminal B is connected to lamp in upper left-hand corner and lamp terminal A is connected to lamp in lower right-hand corner.

PANEL CUT-OUT DIMENSIONS IN INCHES (±.010)

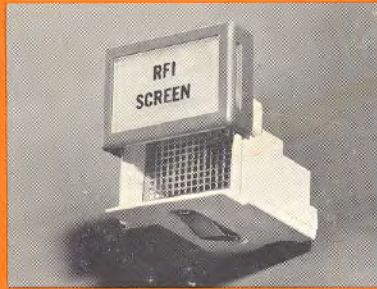
NO. OF UNITS IN ROW	1	2	3	4	5	6	7	8
Horizontal Row "A"	.920	1.925	2.930	3.935	4.940	5.945	6.950	7.955
Vertical Row "B"	.670	1.425	2.180	2.935	3.690	4.445	5.200	5.955

*For matrix arrangement, allow .110" in panel between cut-outs for adjacent horizontal or vertical rows.

OPTIONAL ACCESSORIES FOR THE SERIES 80E TELLITE PILOT LITE

RFI SCREENS

The passage of radiated and/or conducted RFI thru panel cut-outs can be reduced by the fine mesh, metal RFI screen which is mounted between the lamps and display screen of the light capsule. RFI is grounded by electrical contact from the screen to the unit housing to the panel. Available for full, horizontal and vertical split displays.



HOW TO ORDER: To order RFI screens for complete units, insert the part number shown below, (according to the screen configuration) into the complete part number as described on Page 5. It should appear between the designations for Color Filters and Display Screens, per this example:

80E A1 C3 F2(AB) J2 LIN16 ON/OFF

RFI SCREEN PART NUMBER FROM TABLE

PART NUMBER	DESIGNATION
H1	FULL DISPLAY RFI SCREEN
H2	HORIZ. SPLIT DISPLAY RFI SCREEN
H3	VERTICAL SPLIT DISPLAY RFI SCREEN

TO ORDER AS A SEPARATE UNIT, CONTACT FACTORY FOR DETAILS.

DRIP-PROOF SEAL

An easily installed, effective barrier that prohibits the entrance of liquids, or foreign matter through panel openings, without affecting visibility of legends. Assembly consists of a diaphragm which slips over the basic unit from the back, and a seal that fits over the front of the unit to provide an effective seal.



HOW TO ORDER: To order a Drip-Proof Seal as part of a complete unit, insert the part number "11" into the part number for a complete unit as detailed on Page 5. The number "11" should appear between the Series number and the code for the basic unit, as shown in this example:

80E 11 A1 C3 F2(AB) J2 LIN16 ON/OFF

2 Piece Drip Proof Seal Assembly

TO ORDER AS A SEPARATE OR SPARE PART, specify 80E-502.

SPACER BARRIERS

Spacer Barriers are available for vertical or horizontal mounting with 80E Tellite Pilot Lights to provide for design continuity in applications where 80E units are incorporated into rows or stacks of matching 90E Tellite Switches that utilize spacer barriers for switching safety. Spacer Barrier colors are identical to those offered for use with the 90E switch units.



HOW TO ORDER: Select vertical (short) or horizontal (long) barriers from the tables below, according to the desired colors. Two are required for one unit (and one for each additional unit if rows are used).

VERTICAL BARRIERS FOR HORIZONTAL ROWS (Mount on Sides)		HORIZONTAL BARRIERS FOR VERTICAL ROWS (Mount on Top and Bottom)	
PART NUMBER	COLOR	PART NUMBER	COLOR
80E572G	GRAY	80E573G	GRAY
80E572B	BLACK	80E573B	BLACK
80E572W	WHITE	80E573W	WHITE
80E572R	RED	80E573R	RED

NOTE: Barriers are 0.125" thick. The added space required for barriers must be allowed for in the preparation of panel cutouts as detailed on Page 7. Allow 0.340 for the first unit and 0.125 for each additional unit in a matrix.



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