JAY-EL MARK 12 P/N 30288
ILLUMINATED PUSHBUTTON SWITCH
MEETS REQUIREMENTS OF
MIL-S-22885
The Mark 12 may be mounted individually or matrix mounted for caution light panels. When matrix mounted, individual units may be replaced without interfering with adjacent units. This indicator is light weight front relampable, features screw terminals, and is available with T-1 or T-1 ¾ lamps.

**Mounting**

Mounting is easily achieved by use of sleeve which securely clamps the flanged-front housing to the mounting panel with two #2 stainless steel screws and lockwashers. Mounting torque is 1 inch pounds ± .5.

The Mark 12 is designed so the front surface of the lamp capsule in the installed condition is approximately flush with a Mil-P-7788 panel. The unit will mount in panels .055 to .190 thick.

**Screw Terminal Connection**

No soldering required. The rear terminal block incorporates two terminal lugs.

The screw terminals are molded into place and will accept a terminal of .25 diameter relative to the #4 screw specified.

**Press to Relamp Feature**

Pressing face of legend plate, releases lamp capsule for relamping. Capsule remains captive to housing during relamping, or it may be removed entirely from housing for complete replacement. Unit accepts two lamps.

**Weight**

Weight is 0.9 ounce maximum (unsealed).

**Environmental Sealing - MIL-STD-108**

The Mark 12 can be supplied with an integral seal which has passed Splash Proof requirements to Mil-Std-108, High Shock to Mil-S-901C and Mil-S-22885.

**Legend Requirements**

Jay-El can provide P/N 30288 indicators with NVIS compatible lighting.

Many combinations of character or background illumination may be accomplished, including sunlight readable Display Type 8.

Display Type 8 Pushbuttons are available with T-1 or T-1 ¾ based lamps. T-1 lamps are recommended.

<table>
<thead>
<tr>
<th>TABLE 1</th>
<th>TABLE 2</th>
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<th>TABLE 4</th>
<th>TABLE 5</th>
<th>TABLE 6</th>
<th>TABLE 7</th>
<th>TABLE 8</th>
<th>TABLE 9</th>
<th>TABLE 10</th>
<th>TABLE 11</th>
<th>TABLE 12</th>
<th>TABLE 13</th>
<th>TABLE 14</th>
<th>TABLE 15</th>
<th>TABLE 16</th>
<th>TABLE 17</th>
</tr>
</thead>
</table>
| BASIC P/N | MOUNTING TYPE | BEZEL COLOR | SPLIT GROUND | EMI | INTEGRAL SEAL | PULLOVER | BUTTON STYLE | SWITCH POLES | CONTACTS | SWITCH ACTION | UNLIGHTED BACKGROUND COLOR | DISPLAY DATA | LIGHTED COLOR | DISPLAY TYPE | CHARACTER INFORMATION | LAMPS |}

### Table 2: Mounting Type

- ***NOT APPLICABLE***
- ***NOT APPLICABLE***
- ***NOT APPLICABLE***
- ***NOT APPLICABLE***
- ***NOT APPLICABLE***
- ***NOT APPLICABLE***
- ***NOT APPLICABLE***
- ***NOT APPLICABLE***
- ***NOT APPLICABLE***
- ***NOT APPLICABLE***
- ***NOT APPLICABLE***
- ***NOT APPLICABLE***

### Table 3: Bezel Color

- Black
- White
- Gray
- Yellow
- Green
- Blue

### Table 4: Split Ground

- Yes
- No

### Table 5: EMI

- Yes
- No

### Table 6: Integral Seal

- Yes
- No

### Table 7: Retained Pushbutton

- Yes
- No

### Table 8: Pushbutton Style

- Yes
- No

### Table 9: Switch Poles

- Yes
- No

### Table 10: Contacts

- Yes
- No

### Table 11: Switch Action

- Yes
- No

### Table 12: Unlighted Background Color

- BLK: Black
- DW: Diffused
- NG: Neutral
- R: Red
- A: Amber
- Y: Yellow
- G: Green
- B: Blue

### Table 13: Display Data

- C: Clear
- R: Red
- A: Amber
- Y: Yellow
- G: Green
- B: Blue
- DW: Diffused
- WL: White

### Table 14: Lighted Color

- NG: Neutral Gray
- AG: Aviation Gray
- AY: Aviation Yellow
- AG1: Aviation Green 1
- B1: Blue 1

### Table 15: Display Type

1. Black characters on diffused white background. Background illuminates in color.
2. Replaced by display type 7.
3. Not readily discernible - opaque characters on neutral gray illuminating background.
5. Contrasting opaque characters on illuminating colored background. Black characters on yellow or amber background. White characters on all other colors.
6. Display types not covered by this table should be specified by a note on purchase order or may be specified on Jay-El Customer Specification.
7. White characters illuminate in color on black background.
8. Sunlight readable illuminating characters are hidden before lighted. Black background. Characters are visible in direct sunlight (10,000FC) when lighted.

### Table 16: Character Information Chart

**Notes**

* AG or AY should be specified when green or yellow is to meet MIL-C-25050. AY appears amber when illuminated.

* B1 and AG1 special high bright blue & green recommended for display type 8.

**Display Type 8 is available in .012 stroke width only.**

### Character Information (Horizontal Direction Only)

To obtain more characters per line other type fonts are available. Contact Jay-El for further information.

<table>
<thead>
<tr>
<th>Condensed Block</th>
<th>Size</th>
<th>Stroke</th>
<th>Height</th>
<th>Characters Per Line</th>
<th>Lines of Characters</th>
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<tbody>
<tr>
<td>JAY-EL PRODUCTS INC.</td>
<td>-1</td>
<td>.010</td>
<td>.072</td>
<td>14</td>
<td>3</td>
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<tr>
<td>JAY-EL PRODUCTS INC.</td>
<td>-2</td>
<td>.012</td>
<td>.067</td>
<td>12</td>
<td>3</td>
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<td>-3</td>
<td>.025</td>
<td>.175</td>
<td>5</td>
<td>1</td>
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<tr>
<td>JAY-EL PRODUCTS</td>
<td>-4</td>
<td>.035</td>
<td>.222</td>
<td>4</td>
<td>1</td>
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<tr>
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<td>.045</td>
<td>.270</td>
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<td>.055</td>
<td>.310</td>
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<td>.065</td>
<td>.350</td>
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### Display Type 8 Only

**Illuminating Area .700 x .280**

<table>
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<tr>
<th>Futura Medium Condensed</th>
<th>Size</th>
<th>Stroke</th>
<th>Height</th>
<th>Characters Per Line</th>
<th>Lines of Characters</th>
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</thead>
<tbody>
<tr>
<td>JAY-EL PRODUCTS INC.</td>
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<td>.012</td>
<td>.072</td>
<td>14</td>
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<tr>
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<tr>
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<td>1</td>
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<td>.012</td>
<td>.175</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>JAY-EL PRO</td>
<td>-7</td>
<td>.012</td>
<td>.222</td>
<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>
MAJOR OUTLINE DIMENSIONS

MOUNTING PANEL CUTOUTS

Unsealed Units

Metal Panel (.055 to .190 Thick)

Plastic Overlay Panel (.220 to .240 Thick)

Tolerances: Unless otherwise specified - Fraction ± 1/32", .XX±.01, XXX ± .005

INTEGRAL SEALED UNITS

Splashproof per Mil-Std-108

Seal

Side View

Panel Cutout

Gasket EMI/Moisture as Required

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