INDICATOR LIGHTS AND PUSH BUTTONS
24X36

CONTROL AND SIGNALING SOLUTIONS FOR HARSH ENVIRONMENTS
INDICATOR LIGHTS AND PUSH BUTTONS
24X36

Robust
Long life durability:
• A reliability recognized for more than 30 years
• Qualified according to nuclear standards IEEE
• Applications in harsh environment

Configurable
Adaptable to your applications:
• Indicator lights and push buttons
• Push button with 2 or 4 change-over contacts
  ▪ Momentary action
  ▪ « Push-Push »
• From 1 to 4 configurable signalings
• Engraving possibilities

APPLICATION

➢ Allows to give a luminous information and to realize an electric control with the same device

• The range of indicator lights and pushbuttons type 24X36 has been proven for many years in various applications, including electrical sub-stations and control panels of energy production (nuclear power plant ...)

• The push buttons 24X36 have the advantage to combine on the same device a signaling circuit and a contact block. Thus, it is possible to use the same device to display a fault and to control the acknowledgment of this fault.

• In the same range of products we can also propose 24X36 LED indicators with the same size.

* The specifications and drawings given are subject to change and are not binding unless confirmed by our specialists.
General

Fixing
Snap fastened from the front on 2 to 4 mm thick panel

Functions
- Indicator lights
- Push Buttons (with signaling circuit)
  ✓ Momentary action (S.I)
  ✓ « Push-Push » (P.P)

Contacts for push button
- 2 change-over contacts
- 4 change-over contacts

signaling
- 2 - 4 lamps /LEDs « Midget » T1 3/4
- 5 signaling colors
- Possibility of multiple signaling
- Possibility of engravings

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signaling system

White front (color visible lamp lighted only)

« Projected color »

A block in the front is white and diffuses the light
The colors are visible only when the lamps are lighted
The light passes through colored filters
(green, red, yellow, orange, blue or colorless)

Colored front (color visible lamp lighted or extinguished)

« Transmitted color »

A colored film is put in place between the front cap and the white diffusing block (available colors: green, red, yellow, orange, blue). The front face is always colored.

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The front block of the 24X36 products is made in such a way that it can carry out 1 to 4 signals on the same device. Indeed, the lamp holder allows to integrate up to 4 lamps. A partitioning system makes it possible to direct the light towards 4 colored filters. Finally, the shape of the diffuser block makes it possible to diffuse the light according to several configurations.

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### Signaling Possibilities

<table>
<thead>
<tr>
<th>Type of Partition</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Signalings</strong></td>
<td>1 signaling 24X16</td>
<td>2 signalings 24X8</td>
<td>2 signalings 12X16</td>
<td>4 signalings 12X8</td>
<td>1 signaling 24x8 + 2 signalings 12X8</td>
<td>2 signalings 12X8 + 1 signaling 12x16</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Number of Colors per Signaling</strong></td>
<td>4</td>
<td>2/3</td>
<td>1</td>
<td>2/3</td>
<td>1</td>
<td>2/3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Number of Lamps per Color</strong></td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td><strong>Engraving Possibilities</strong></td>
<td>Per signaling 1 line of 17 letters of 2 mm</td>
<td>Per signaling 3 lines of 8 letters of 2 mm</td>
<td>Per signaling 1 line of 8 letters of 2 mm</td>
<td>- Per signaling 24X8 1 line of 17 letters of 2 mm</td>
<td>- Per signaling 12X8 1 line of 8 letters of 2 mm</td>
<td>- Per signaling 24X8 1 line of 17 letters of 2 mm</td>
<td>- Per signaling 12X8 1 line of 8 letters of 2 mm</td>
<td></td>
</tr>
<tr>
<td><strong>Engraving</strong></td>
<td>- The letters M and W count for a letter and a half, the letter I for half a letter, the spaces and punctuations for a letter, the numbers for a letter.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Indicator Lights References

#### Indicator Lights for Mounting Singly or in Stacks
![Diagram of indicator lights for mounting singly or in stacks]

- **White front face (projected color)**: [410 230 01](#)
- **Colored front face (transmitted color)**: [410 311 26](#)

#### Indicator Lights for Mounting in Rows
![Diagram of indicator lights for mounting in rows]

- **White front face (projected color)**: [410 233 20](#)
- **Colored front face (transmitted color)**: [410 313 20](#)

### How to Order a 24X36 Indicator Light?

1. Select a part number from the table above
2. Specify the type of partition (see above)
3. Specify where necessary the position of the different colors of the signaling
4. Specify where necessary the engravings and their location on the different signalings
5. Specify if lamps or LEDs have to be supplied and their voltages

**Example:**
- **Eg: 410 311 26**: Green / Red
- **Eg: on C1: « ON », on C2: « OFF »**: 1 LED 48V per signal

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### Push buttons references

#### Push button for mounting singly or in stacks

<table>
<thead>
<tr>
<th>Function</th>
<th>White front face (projected color)</th>
<th>Colored front face (transmitted color)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>With cover</td>
</tr>
<tr>
<td>SI 2</td>
<td>41070106</td>
<td>41012110</td>
</tr>
<tr>
<td>SI 4</td>
<td>41070207</td>
<td>41012211</td>
</tr>
<tr>
<td>PP 2</td>
<td>41070300</td>
<td>41012312</td>
</tr>
<tr>
<td>PP 4</td>
<td>41070401</td>
<td>41012413</td>
</tr>
</tbody>
</table>

#### Push button for mounting in rows

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<th>Colored front face (transmitted color)</th>
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<tbody>
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<td>Standard</td>
<td>With cover</td>
</tr>
<tr>
<td>SI 2</td>
<td>41070603</td>
<td>41017122</td>
</tr>
<tr>
<td>SI 4</td>
<td>41070704</td>
<td>41017223</td>
</tr>
<tr>
<td>PP 2</td>
<td>41070815</td>
<td>41017324</td>
</tr>
<tr>
<td>PP 4</td>
<td>41070916</td>
<td>41017425</td>
</tr>
</tbody>
</table>

#### How to order a 24X36 push button?

1. Select a part number from the table above
2. Specify the type of partition (see above)
3. Specify where necessary the position of the different colors of the signaling
4. Specify where necessary the engravings and their location on the different signalings
5. Specify if lamps or Leds have to be supplied and their voltages

Example:

Eg: 410 701 06
Eg: C
Eg: C1: ‘green’ / C2: ‘red’
Eg: on C1: « ON », on C2: « OFF »
Eg: 1 LED 48V per signaling

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**Specifics mounting**

**Mounting in stacks**

Maximum 15 units per stack

Y = number of indicators

A greater number of indicators per stack is possible by spacing the stacks

**Mounting in rows**

These assemblies are carried out using indicator lights and push button for unitary or stack mounting

**N12 simplified multiple mounting**

A N12 box is an assembly delivered mounted with indicator lights and push buttons for unitary mounting.

This assembly is fitted by the front of the panel and fixed by M4 screws.

It’s possible to realise N12 boxes with

X : 1 to 12 vertical rows
Y : 1 to 8 horizontal rows

To order it’s necessary to provide us the needed arrangement of the box and the configuration of each components assembled on.

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## Technical characteristics

### Electrical, mechanical characteristics

#### Contacts circuit
- **Connection**: Soldered only
- **Cable section**: 2 cables 1mm² maxi
- **Maximum voltage**: 250VAC
- **Maximum current**: 5 A
- **Dielectric strength**: 1 kV @ 50Hz-1min (between contact terminals) 2 kV @ 50Hz-1min (between terminals and ground)

#### Signaling circuit
- **Connection**: Soldered only
- **Cable section**: 1 cable 1mm² maxi
- **Dielectric strength**: 3 kV @ 50Hz-1min (between signaling circuit terminals)
- **Pollution degree**: Type 3
- **Front face protection degree**: IP40
- **Contacts protection degree**: IP00
- **Marking**: By engraving on the front face or inserted film
- **Fixing**: By springs at the front of the support
- **Panel thickness**: 2 to 4 mm
- **Working temperature** (optimal operating conditions of the LEDs): -25°C to +30°C (beyond decreasing of the lifetime)
- **Storage temperature**: -40°C to +70°C

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