



# INDICATOR LIGHTS AND PUSH BUTTONS 22HL



CONTROL AND SIGNALING SOLUTIONS FOR HARSH ENVIRONMENTS



## INDICATOR LIGHTS AND PUSH BUTTONS 22HL



### Robust

#### **Long life durability:**

- A reliability recognized for more than 30 years
- Applications in harsh environment

### Configurable

#### **Adaptable to your applications :**

- Indicator lights and push buttons
- Push button with 2 change-over contacts
  - Momentary action
  - « Push-Push »
- 1 or 2 configurable signaling
- 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 22HL has been proven for many years in various applications, including electrical sub-stations and railways synoptic.
- The push buttons 22HL 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 22HL LED indicators and push buttons with the same size.

## General

### Indicator light



### Push button 2 change-over contacts



### Fixing

Snap fastened from the front on 0,8 to 3,9 mm thick panel or 4 to 6 mm thick panel

### Functions

- Indicator lights
- Push Buttons (with signaling circuit)
- ✓ Momentary action (S.I)
- ✓ « Push-Push » (P.P)
- Special realization on demand

### Contacts for push button

- 2 change-over contacts

### Signaling

- Tabs 18x18 or 24x24
- 2 lamps /LEDs « Midget » T1 ¾
- 1 or 2 signals
- Possibility of engravings

## 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  
 In white version a bluish-white there is a film in front face  
 The light passes through colored filters  
 (green, red, yellow, orange, blue or colorless)  
 In « projected color » version you can have 2 different colors of signals.



Lights off



Lights on  
(with red filters)



Lights off



Lights on  
(with colorless filters)

### 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.  
 In « transmitted color » version you can have only one color of signal.



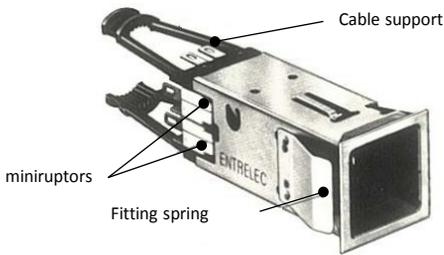
Lights off



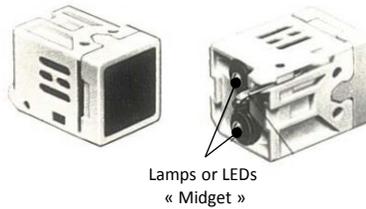
Lights on

## Characteristics of indicator lights and push buttons 22HL

Push button body



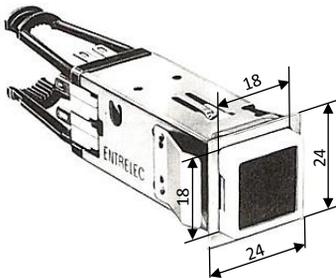
Front block with 18 x 18 tab



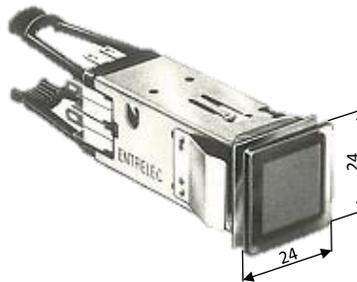
A 22 HL unit comprises:

- 1 metallic body (with cable support)
  - The mechanism
  - The contacts
- 1 front block that receive
  - The tab
  - The lamps or LEDs type « Midget »

22 HL push button with semi-recessed 18 x 18 tab



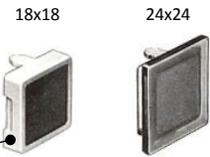
22 HL push button with semi-recessed 24 x 24 tab



There are 2 types of presentations:

- Semi recessed
  - Translucent 18 x 18 square tab (with light gray faceplate\*)
  - Smoke 24 x 24 square tab

- recessed
  - 18 x 18 tab



\*faceplate

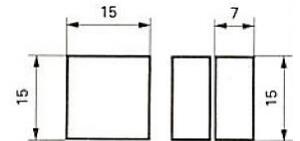
22 HL push button with recessed 18 x 18 tab



22 HL push button with safety cover

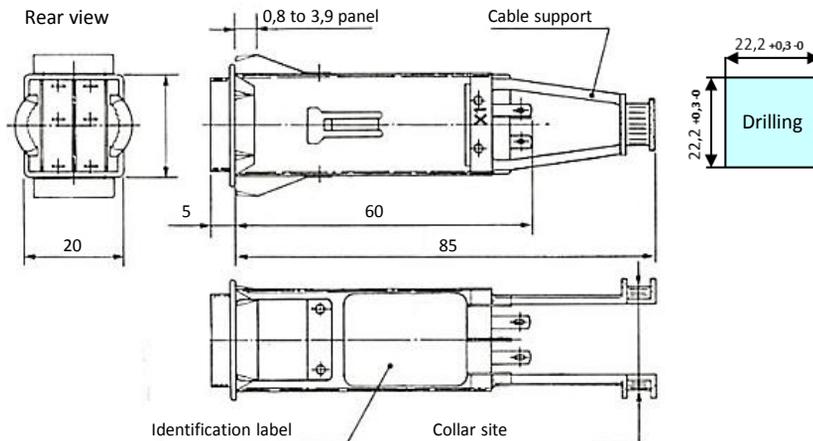


A device can carry out 1 or 2 signals \*

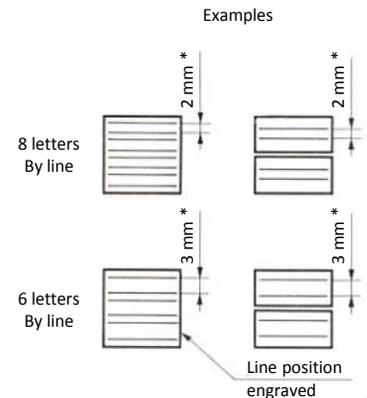


\* For 2 independent signals, the partition which separates them is always located parallel to the fitting springs of the device

### Dimensions and drilling



We can make a marking on request



\* Height of letters

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

## References of indicator lights and push buttons 22HL

How to order an indicator light or push button 22HL ?

Rear block (body)				
Fitting on panel	thickness 0,8 to 3,9 mm		thickness 4 to 6 mm *	
Function	Semi recessed	Recessed	Semi recessed	Recessed
Indicator light	37750403	37775616	37775024	37776214
Push button Single impulse S.I 2 change-overs	37751901	37775820	37775212	37776416
Push button Push-Push P.P 2 change-overs	37755911	37776026	37775414	37776610

\* On request

Front block for lamps/LEDs « Midget » - Tabs 18X18 or 24X24				
	1 signal 15x15 		2 signals 15x7 	
Function	 Tab 18x18	 Tab 24x24	 Tab 18x18	 Tab 24x24
  <b>« Projected color » (white front face when lights off and colored when lights on : filters)</b>				
Indicator light or P.B S.I	37750100	37751222	37752325	37753226
P.B P.P	37751323	37752224	37753327	37754200
  <b>« Transmitted color » (colored front face when lights off and on : films)</b>				
Indicator light or P.B S.I	37750504	37752802	37754917	37756812
P.B P.P	37752903	37754816	37756913	37757915

- 1) Choose a reference of rear block and of front block in the table above
- 2) Indicate us the color(s) of signal(s) and their locations
- 3) Indicate us the possible engravings and their locations
- 4) Indicate us if the supply of lamps and LEDs is required and the voltage

Eg : 37775820 + 37752325  
 Eg : 'green' at left and 'red' at right  
 Eg : « ON » at left et « OFF » at right  
 Eg : 1 LED 48V per signal

## Specifics assembly

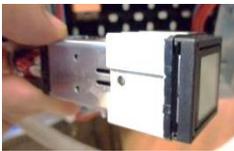
We have the possibility to realize specifics devices or assemblies on request: **Contact us**

### Push button with safety cover and connector for mounting on mosaic type « SMUC »

We can equip the 18 x 18 push buttons with a protective cover. We can also pre-wired the device on connectors.



### 22HL for mounting on mosaic « C25 »



We have the possibility to realize 22HLs for mounting on our « C25 » mosaic. We can also supply devices compatible with other types of mosaic tiles.

### « Strip » mounting



We have the possibility to realize « strip » made up of several 22HL devices. Each device is independent. The strip thus formed can be installed horizontally or vertically in a single hole.

### « Matrix » mounting



We have the possibility to realize « matrix » made up of several 22HL devices. Each device is independent. The matrix consists of several rows and columns.

## Technical characteristics

### Electrical, mechanical characteristics

<b>Connection</b>	<b>Contacts circuit</b>	Soldered or Fast-On clips 2,8x0,5
<b>Cable section</b>		1 cable 1mm <sup>2</sup> maxi
<b>Maximum voltage</b>		220VAC ( resistive circuit )
<b>Maximum current</b>		5 A (resistive circuit )
<b>Dielectric strength</b>		500V @ 50Hz-1min (between contact terminals) 2,5 kV @ 50Hz-1min (between terminals and ground)
	<b>Signaling circuit</b>	
<b>Connection</b>		Soldered or Fast-On clips 2,8x0,5
<b>Cable section</b>		1 cable 1mm <sup>2</sup> maxi
<b>Max power dissipation</b>		<b>Contact us</b>
<b>Pollution degree</b>		Type 3
<b>Front face protection degree</b>		IP40
<b>Contacts protection degree</b>		IP00
<b>Marking</b>		By engraving on the front face or inserted film
<b>Fixing</b>		By springs at the front of the support
<b>Panel thickness</b>		0,8 à 3,9 mm
<b>Working temperature (optimal operating conditions of the LEDs)</b>		-40° C à + 85° C (beyond decreasing of the lifetime)
<b>Storage temperature</b>		-40° C à + 85° C