

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 buttonw 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.

General



Indicator light



Push Button 2 change-over contacts

Push Button 4 change-over contacts
With safety cover

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

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)



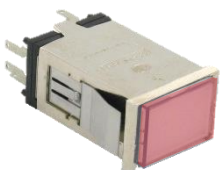
Lights off

Illuminated lights
(with red filters)Illuminated lights
(with colorless filters)

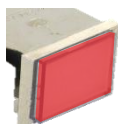
Colored front (color visible lamp lighted or extinguished)

« Transmitted color »

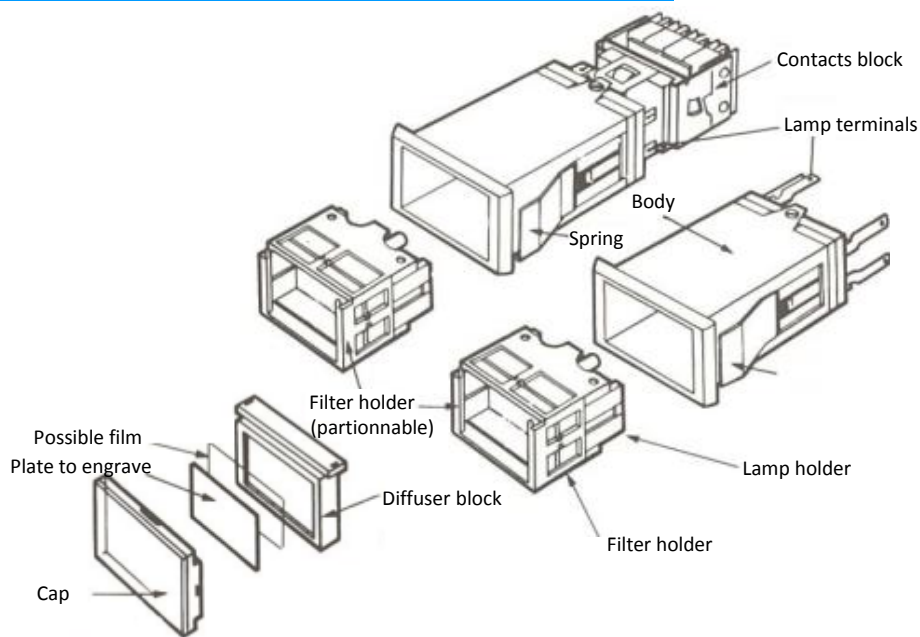
A colored film is put in place between the front cap and the white diffusing block (available colors : green, red, yellow, orange, blue).
The front face is always colored.



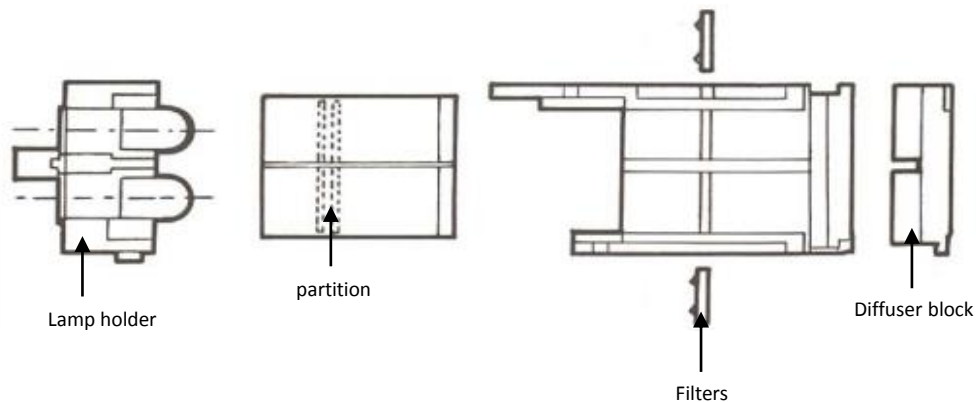
Lights off

Illuminated lights
(with red film)

Constitutions of indicators and push buttons



Principle of multiple signaling



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.

signaling possibilities

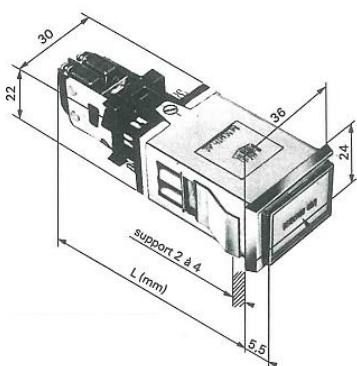
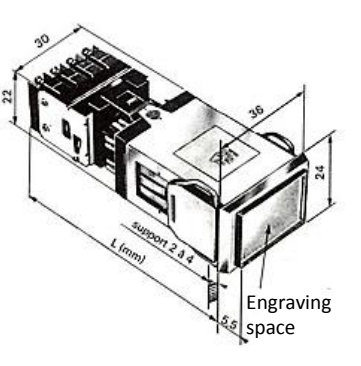

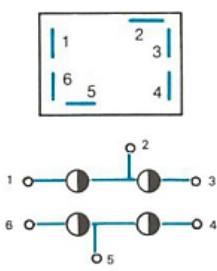
Type of partition	A	B	C	D	E	F	G	H
Number of signalings	1 signaling 24X16	2 signalings 24X8	2 signalings 12X16	4 signalings 12X8	1 signaling 24x8 + 2 signalings 12X8		2 signalings 12X8 + 1 signaling12x16	
Number of colors per signaling					Par signalisation 24X8	Par signalisation 12X8	Par signalisation 12X8	Par signalisation 12X8
	4 2/3 1	2/3 1	2/3 1	1	2/3 1	1	2/3 1	1
Number of lamps per color	1 2 2 or 4	1 2	1 2	1	1 2	1	1 2	1
Engraving possibilities	<ul style="list-style-type: none">- 2 lines of 9 letters of 3mm- 3 lines of 17 letters of2mm	Per signaling 1 line of 17 letters of 2 mm	Per signaling 3 lines of 8 letters of2 mm	Per signaling 1 line de 8 letters of 2 mm	<ul style="list-style-type: none">- Per signaling 24X8 1 line of 17 letters of 2mm- Per signaling 12X8 1 line of 8 letters of 2mm		<ul style="list-style-type: none">- Per signaling 24X8 1 line of 17 letters of 2mm- Per signaling 12X8 1 line of 8 letters of2mm	
Engraving	<ul style="list-style-type: none">- 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.							

Indicator lights references

Indicator lights for mounting singly or in stacks		Indicator lights for mounting in rows	
White front face (projected color)	410 230 01	White front face (projected color)	410 233 20
Colored front face (transmitted color)	410 311 26	Colored front face (transmitted color)	410 313 20
How to order a 24X36 indicator light? <ol style="list-style-type: none"> 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 		Eg : 410 311 26 Eg : C Eg : C1 : 'green' / C2 : 'red' Eg : on C1 : « ON », on C2 : « OFF » Eg : 1 LED 48V per signal	



Push buttons references

Push button for mounting singly or in stacks					Push button for mounting in rows				
									
Function : Momentary action L = 85 mm SI 2 : 2 change-over contacts SI 4 : 4 change-over contacts Function : « Push -Push » L = 92 mm PP 2 : 2 change-over contacts PP 4 : 4 change-over contacts					Contacts block  <p>The position of the C, NO and NC Contacts is approximate</p> <p>signaling circuit</p> 				
Push button for mounting singly or in stacks					Push button for mounting in rows				
	White front face (projected color)		Colored front face (transmitted color)			White front face (projected color)		Colored front face (transmitted color)	
Function	Standard	With cover	Standard	With cover	Function	Standard	With cover	Standard	With cover
SI 2	41070106	41012110	41030105	41010125	SI 2	41070603	41017122	41030602	41016120
SI 4	41070207	41012211	41030206	41010226	SI 4	41070704	41017223	41030703	41016221
PP 2	41070300	41012312	41030307	41010327	PP 2	41070815	41017324	41030814	41016322
PP 4	41070401	41012413	41030400	41010420	PP 4	41070916	41017425	41030915	41016423
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						Eg : 410 701 06 Eg : C Eg : C1 : 'green' / C2 : 'red' Eg : on C1 : « ON », on C2 : « OFF » Eg : 1 LED 48V per signaling			

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

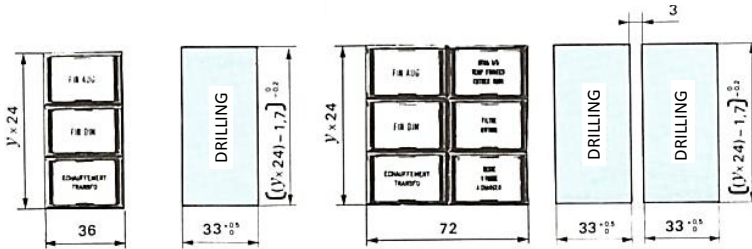


Specifics mounting

Mounting in stacks

Maximum 15 units per stack

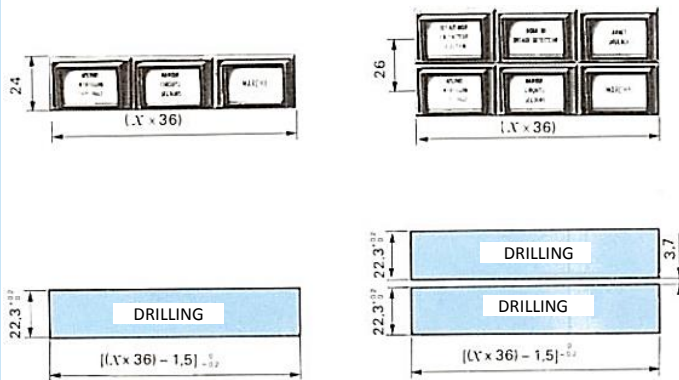
Maximum 4 units per stack



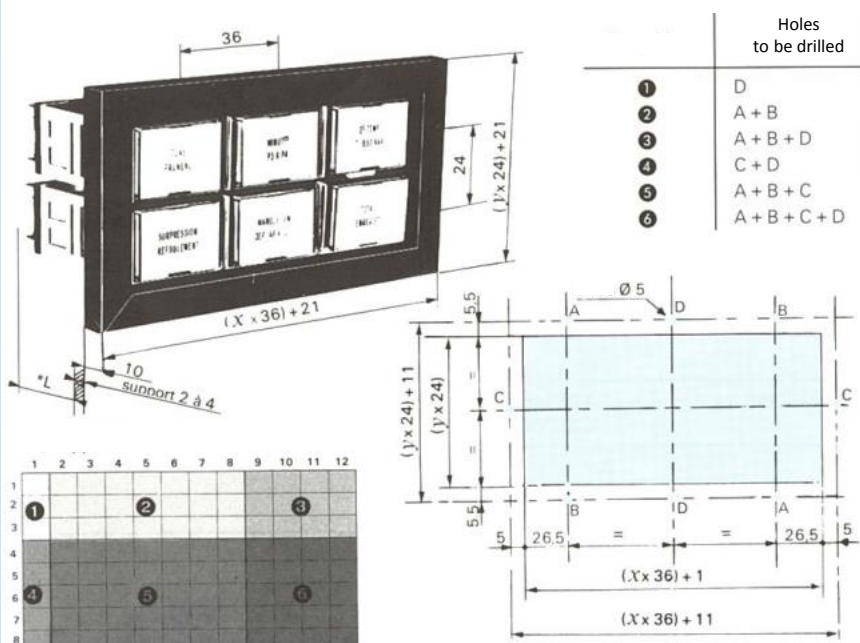
Y = number of indicators

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

Mounting in rows



N12 simplified multiple mounting



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

These assemblies are carried out using indicator lights and push button for mounting in rows

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.

Technical characteristics

Electrical, mechanical characteristics

Contacts circuit

Connection	Soldered only
Cable section	2 cables 1mm ² 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 1mm ² 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