

COMPALARM AP

ALARM ANNUNCIATOR

GENERAL

The COMPALARM AP is a point alarm system, with as many normally closed input contacts. It gives the possibility of selecting the alarm sequence according with 30 x 30 mm cells, fitted with ultra bright white LED's, achieving a low power consumption and a lamp maintenance free operation. The interconnecting possibility allows to design other supervision alarm systems with many extensions. The alarm systems type COMPALARM AP has been conceived with its very reduced dimensions, but maintaining the characteristics of the COMPALARM A system. This system has been studied for the most critical uses, i.e. electrical plants in which a malfunctioning of a single component should only harm the function of one channel at most. Each channel is protected by optoisolators, which keep free of any external disturbances. Every channel is fitted with a micro-switch allowing the selection of a normally open (N.O.) or a normally closed (N.C.) contact.

It is also possible to select a different functioning of the output relays for the acousting signalling in order to have 2 signalling types according with the alarm type. With regard to this possibility, there might be the following options, which might be selected by a micro-switch:

- 6 inputs on relay 1 and 6 inputs on relay 2
- 8 inputs on relay 1 and 4 inputs on relay 2
- 10 inputs on relay 1 and 2 inputs on relay 2
- 12 inputs on relay 1 and the relay 2 working as cumulative for indication of a group in alarm situation

The visualisation is being made by special LED's granting a high brightness together with a long lasting life (millions of working hours), which saves the lamps replacement problems.

MAIN FEATURES

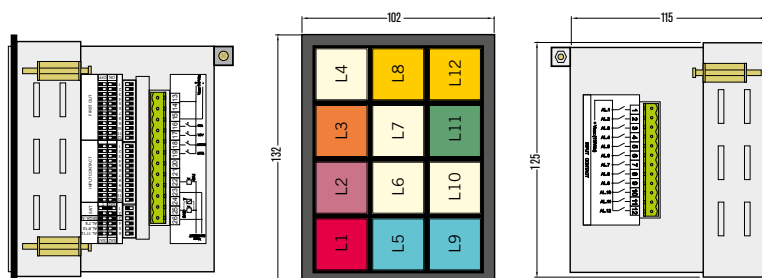
- 12 contact inputs
- 4 push button inputs (test, horn off, ack, reset)
- Optoisolated inputs
- Normally open / closed input contacts
- Horn output
- Alarm cumulative output
- Flush panel mounting
- 1 wire expansion line
- Low power consumption
- No lamp maintenance required
- Auto-reset power supply fuse
- 4 pre-selectable sequences: ISA A, ISA M, ISA F1A, ISA F1M

OPERATION

Whenever there is a change over the input contacts, from the normally open (N.O.) to close situation of from normally closed (N.C.) to open situation, the COMPALARM AP device changes from rest condition to the alarm condition. There will be therefore an optic and acoustic signalling with the particular behaviour, which will depend on the particular selected sequence (see the sequence table). All the operations required by the sequences, which the device can perform, may be achieved by the push buttons, as silence, acknowledge and reset. The silence push button particularly, reacts only on the siren, without interfering the lamp. Whenever the silence push button is not being used, it is possible to perform simultaneously the silence of the acoustic alarm so as the change of the optic signalling from flashing to fix, by using the acknowledge push button. We can perform the complete test of the system through the test push button. On request, it is possible to perform the LED's test only, instead of the complete test.



DIMENSIONS



COMPALARM AP

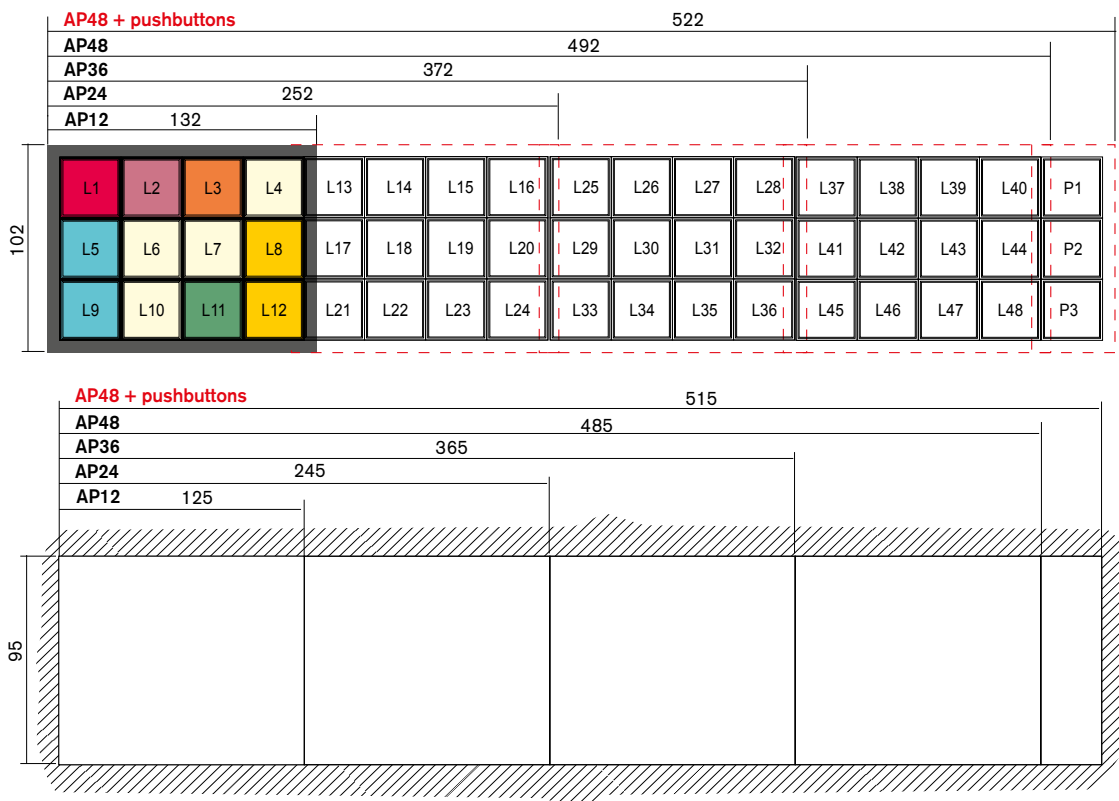
ALARM ANNUNCIATOR

TECHNICAL CHARACTERISTICS		AP
AUXILIARY SUPPLY		
Rated voltage	24 VAC/DC - 48 VDC - 115 VDC	
Frequency	50 ÷ 60 Hz	
Power consumption	10 W max	
CHANNEL INPUTS		
Number of inputs	12 (standard) or more	
Voltage inputs	24 VAC/DC - 48 VAC/DC - 115 VDC	
Frequency	0÷1000 Hz	
Consumption (each input)	0,5 W max	
Window illumination	Hi-efficiency white LED	
LED color	Red, yellow, green, blue, white, orange	
OUTPUTS		
Number of outputs	2	
AMBIENT CONDITIONS		
Operating temperature	0 ÷ +60 °C	
Storage temperature	-20 ÷ +70 °C	
Relative humidity	45 ÷ 90 % (not condensing)	
HOUSING		
Version	Flush mount	
Dimensions w x h x d	132 x 102 x 80 mm	
Cutout	125 x 125 mm	
Degree of protection	IP52	
Weight	800 g max	
CERTIFICATIONS AND COMPLIANCE		
Reference standards	EMC 89/336/EEC - EN 50082-1 - EN 50082-2	
OPTION		
ORDER CODE	DESCRIPTION	
AP...24	Power supply 24 VAC/DC - Voltage inputs 24 VAC/DC	
AP...48	Power supply 48 VDC - Voltage inputs 48 VDC	
AP...110	Power supply 110 V/DC - Voltage inputs 110 VDC	
AP...220	Power supply 220 VDC - Voltage inputs 220 VDC	
OPTION 1		
Keyboard functions	ACK, TEST SEQUENCE, RESET, HORN OFF keys	
Test function	TEST lamp key	
First out	First out function	
Fail safe	Relay (R2) normally excited	
Models		
COMPALARM AP12	12 channel inputs	
COMPALARM AP24	24 channel inputs	
COMPALARM AP36	36 channel inputs	
COMPALARM AP48	48 channel inputs	

COMPALARM AP

ALARM ANNUNCIATOR

DIMENSIONS AND PANEL CUT OUT

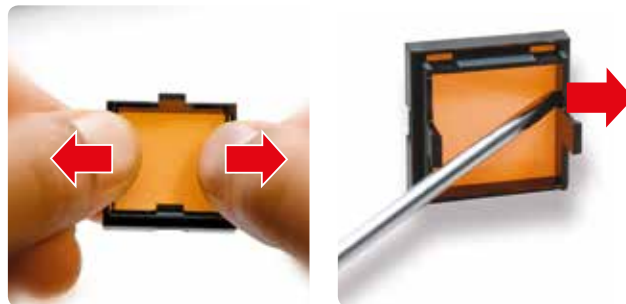


FRONT PANEL



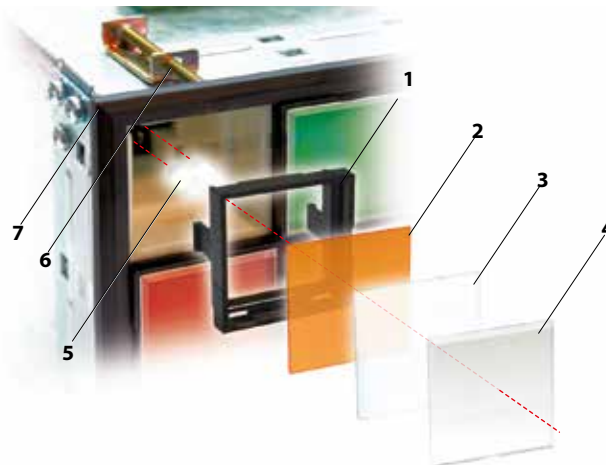
1 - For removing the lens groups, it's sufficient to insert the screwdriver tip into the frame's groove and lever up slightly, as indicated.

2 - To separate the parts of the group, press on the rear of the plate, enlarging slightly the frame, as indicated on the left image, or levering up with a small screwdriver.



COMPONENTS

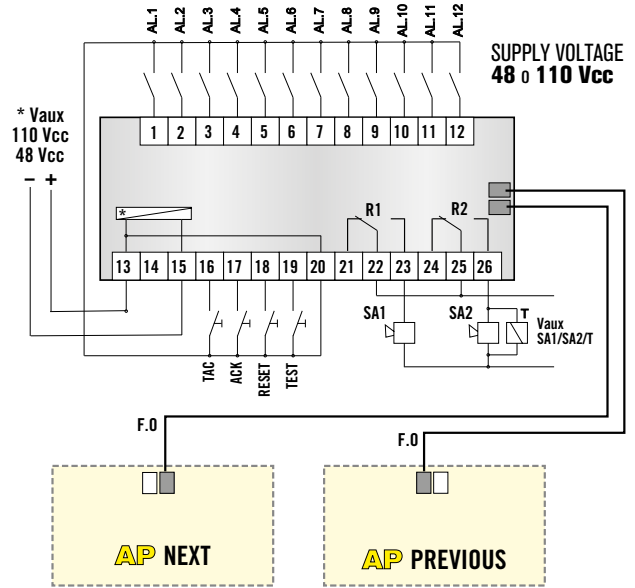
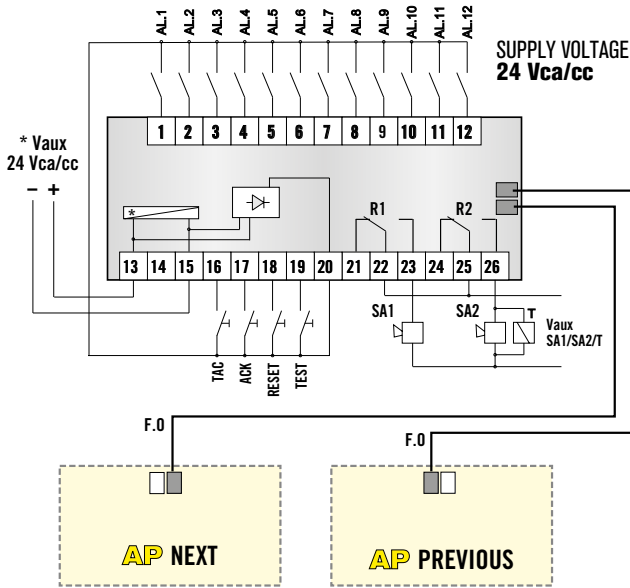
1	Frame
2	Window colours: Blue - Green - Red - Yellow - White - Orange
3	Printing plate
4	Lens
5	Lamp
6	Fixing clips
7	Lens fixing frame
Note:	For printing, it's possible to print the number 3 part, or introduce a printed transparent film, similar to those used in luminous screens with printed texts, preferably printed with laser printers.



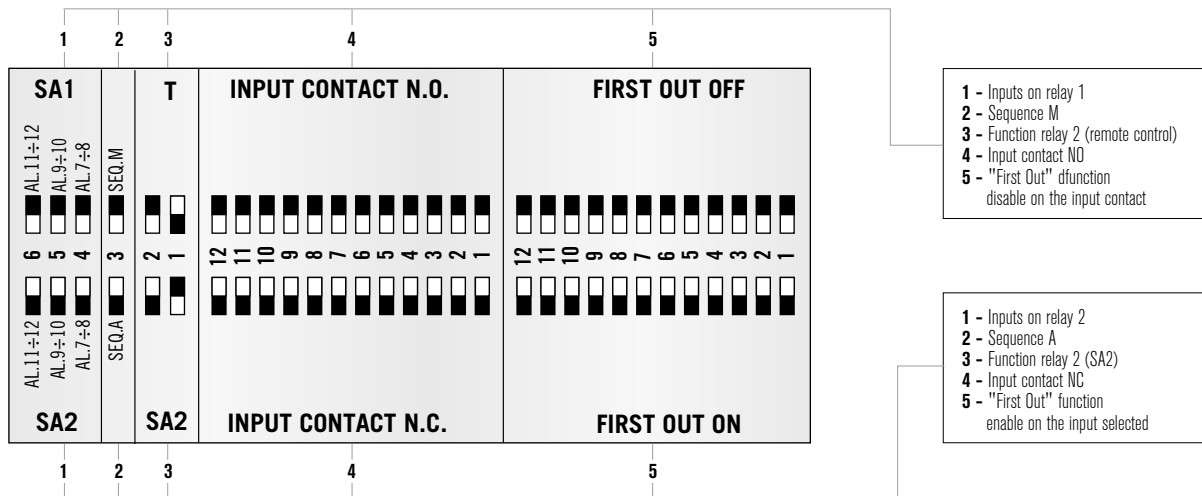
COMPALARM AP

ALARM ANNUNCIATOR

WIRING DIAGRAM



PROGRAMMING



GROUP FIXING



- 1 - Insert the device by the front of the panel through the available location.
 - 2 - Install the fixing devices into their available grooves, as shown in the image and screw down up to their complete fixing.
- Should the device be subject to vibrations, block the screws with the varnish or similar fixing material.
 - The number of fixings varies according with the dimensions of the group, which should be supported. Four fixings are sufficient for a basic unit, up to the maximum of twelve for 16 units groups.