

# PANEL SIGNALING SQ

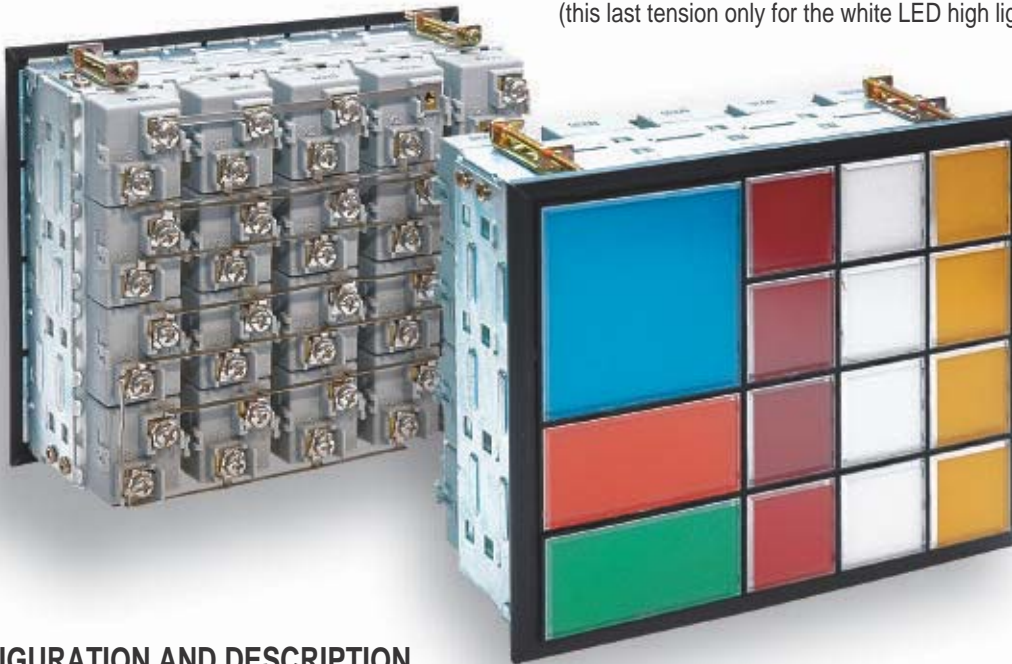


The SQ type basic signaling cells are available in the 30 x 30 mm versions. From the cells, it is possible to obtain other four types (A-B-C-D). The 30 x 30 mm dimension has been chosen, since one may reach the DIN 72 x 72 dimension with a possible combination of 4 cells. All above to allow its installation with other systems built, according with DIN standard.

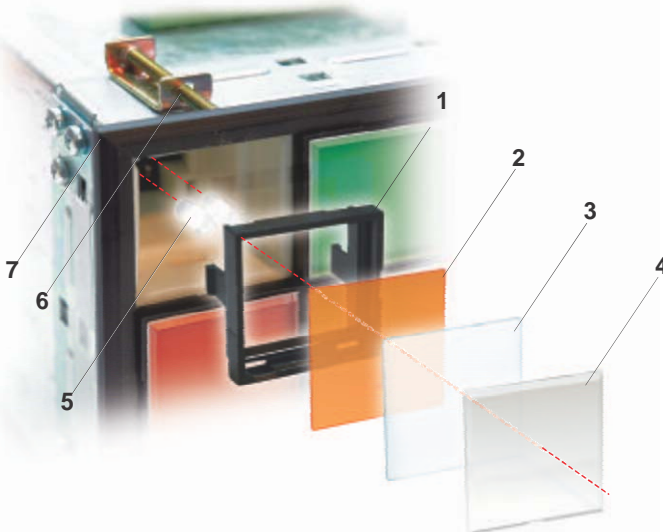
The SQ series are prepared to accept incandescent lamps or MULTILED, with BAS9 fixing and a power of 1W.

It is possible to reach up to 200 cells, with the COMPALARM A.

The lamp substitution is being made from the front side of the panel. While in the case the white LED are used, the substitution of the same must be made from the rear of panel. The available tensions are 24 V (when the visual display are with the alarm system COMPALARM A) or 48 - 110 - 230 (this last tension only for the white LED high light).



## CONFIGURATION AND DESCRIPTION



- 1 Black external frame
- 2 Colour plate (BLUE/GREEN/RED/YELLOW/WHITE/ORANGE)
- 3 Printing plate
- 4 Lens
- 5 Lamp
- 6 Fixing clips
- 7 Lens fixing frame

For the printing it is possible print the particular 3 or insert a transparent film of the type for projectors. Using frames of various dimensions it is possible to create larger windows, grouping more luminous indications.

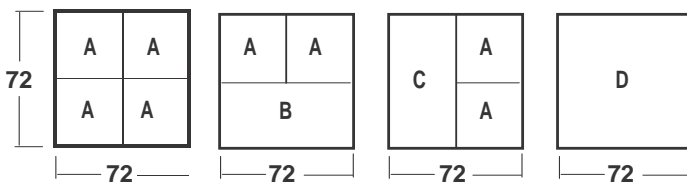
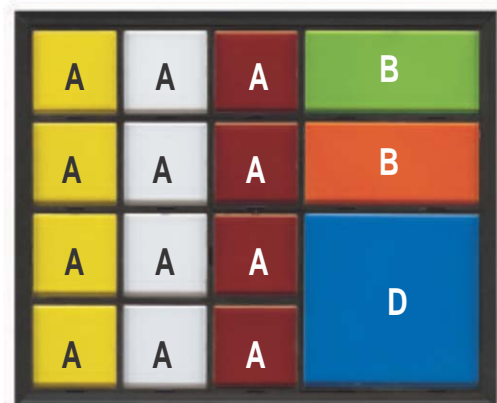


Plate Type	A	B	C	D
Dimensions	30x30	60x30	30x60	60x60
Printing area	25x25	55x25	25x55	55x55



## DIMENSIONS AND DRILLS

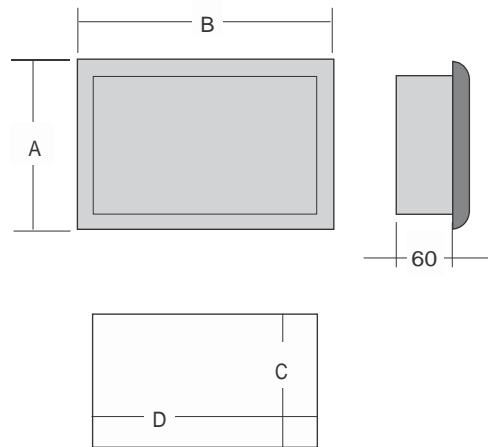
ROWS	COLUMNS		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
	A	B	42	72	102	132	162	192	222	252	282	312	342	372	402	432	462	492	522	552	582	612
		C	D	35	65	95	125	155	185	215	245	275	305	335	365	395	425	455	485	515	545	575
01	42	35	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
02	72	65	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
03	102	95	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
04	132	125	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
05	162	155	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
06	192	185	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
07	222	215	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140
08	252	245	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160
09	282	275	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135	144	153	162	171	180
10	312	305	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200

• The number of visualisation cells is equal to the result of multiplying the number of rows by the number of columns.

- The drill dimensions are C (height).
- The tolerance is of 0,1 mm.

Example: **5 rows by 7 columns visualisation panel**

- The total number of cells would be 35.
- The external dimensions would be 162 mm of height by 222 mm of width.
- The drill dimension would be 155 mm height by 215 mm of width.



## ELETTRICAL CHARACTERISTICS

Operation voltage	24 ÷ 30 V
Lamps power	1 W MAX
Lamps type	BA9S or MULTILED BA9S or white LED high light
Number of lamps	1 per cell type A 30 x 30 - 2 per cell 60 x 30 - 4 per cells 60 x 60
Maximum number of points	200
Isolation resistance	> 10 Mohm (Megger 500 V)
Isolation test	2 kVca 60 seconds
Colour of plates	White, red, green, yellow, blue, orange
Material	Synthetic resin
Screw terminal	Screw M 3,5
Working temperature	-20 ÷ 40 °C
Relative humidity	90 %

### GENERAL

**Compalarm B** is an alarm system conceived with the aim of optimising the space saving so as to enabling its installation in standard civil buildings. It doesn't need of electric panel, and it can be housed in a flush mounting box.

A surface-mounting version is also available. This system is suitable for the control of 6 points, with information received from voltage free external contacts, either normally open (NO) or normally closed (NC).

The selection of contact types is made by means of dipswitches, placed inside of the device. Displaying of alarm condition is obtained through LED, whilst the acoustic is blown by an internal buzzer. Every alarm point is also provided with a changeover contact, which repeats with accuracy the input contact condition, for eventual remote repeating requirement

An output relay for possible repeating of acoustic signal is also available.

"COMPALARM B" is also provided with a particular operative logic, which allows its installation in unattended places. This, because after a certain period of persisting alarm condition, the acknowledgement takes automatically place.

The automatic acknowledgement is clearly to affect the acoustic signalling, whilst keeping the optical indication of an alarm, unchanged.

As far as its construction is concerned, "COMPALARM B" is practically immune to disturbances, due to its optoisolators separation, between the external contacts and internal circuits on alarm inputs. So as to the relays between the internal circuits and the eventual remote repetitions.

### Operation

When powering the unit or when returning from a Voltage black out, the alarm system comes to rest, i.e. without optical nor acoustic signalling.

When the input contacts change position, due to a signal reception, "COMPALARM B" becomes active, with LEDS flashing. The relay is excited making the buzzer to blow intermittently.

After the manual acknowledgement, the buzzer will remain silent, and the light will be kept fixed, in case of the failure still existing. Otherwise, if the problem is over, the light will be Off.

The fix lighted LED keeps on until the external contact comes back to normal condition, switching the LED off, therefore:

Shouldn't the acknowledgement be made, the buzzer will start some series of blowing periods. First will blow for 15 sec. and will rest for 20sec. Second will blow for 12 sec., and rest for 20 sec.. Third blows for 10 sec., and will rest for 15 sec., after that will finally blow for 8 seconds and it will definitely stop.

Nevertheless, the associated LED's to the alarm points will keep flashing, up to the next manual acknowledgement or coming back from voltage black out. All this allows an accurate supervision, on all events of the alarm system by the operator, even during unattended service time.



### ELECTRICAL CHARACTERISTICS

Auxiliary power supply	220V 50 Hz
Self-consumption	5 VA
Alarm sequence	ISA1
Input contact	N.O. or N.C. Selectable by means of dipswitch
1 changeover output contact per alarm point, which allows the repetition of the input contact position	
Contact power	5A
Commuting voltage	250V a.c. or 110V d.c.
Commuting power	960VA or 120W
Optical signal for presence of auxiliary supply	Green LED
Optical signal of alarm	Red LED
Acoustic signaling	With internal buzzer or with a change over relay for remote repetition
Sequence test push button	Built in
Push button for acknowledgment	Built in
Working temperature	-10°C ÷ + 60°C
Storing temperature	-20°C ÷ + 80°C
Relative Humidity	90%
Isolation test	2kV 60 seconds