



**BENTEL<sup>®</sup>**  
SECURITY



BS EN ISO 9001



# MIA-S

**Tastiera di Controllo LCD**  
**LCD Control Keypad**  
**Clavier de Contrôle LCD**



**CE** MADE  
IN  
ITALY

## ITALIANO

### Caratteristiche Generali

- Design innovativo ed ergonomico
- Grande display retroilluminato, 2 righe, 16 colonne
- Luminosità e Contrasto del display regolabili
- Tasti retroilluminati
- 3 coppie di tasti per l'attivazione immediata degli allarmi Furto, Incendio ed Emergenza
- 2 Deviatori Antisabotaggio
- 1 Deviatore Antistrappo (opzionale)
- 1 Zona programmabile
- Numerosi fori per il fissaggio in ogni situazione

### Descrizione Generale

La Tastiera MIA-S è un dispositivo per il controllo delle centrali della linea Omnia ed Academy40.

Il funzionamento della tastiera MIA-S è uguale a quello della tastiera OmniaTAST-R, per cui si rimandano l'installatore e l'utente alla lettura delle istruzioni relative a quest'ultima.

In questo foglio d'istruzioni si descrivono solo le differenze fra le due Tastiere.

### Installazione

Per l'installazione di questa Tastiera procedere come descritto di seguito (vedere la Figura 1)

1. Aprire lo sportello **14**.
2. Svitare le viti **15**.
3. Togliere il coperchio **16**.
4. Separare la Scheda Elettronica **11** dal fondo **12**.
5. Installare il Deviatore Antistrappo **2** come mostrato in Figura 1, altrimenti leggere il passo seguente.

*es\** Il Deviatore Antistrappo è opzionale (art. ASNC).

6. Passare il cavo per i collegamenti attraverso l'apertura **13**.
7. Fissare il Fondo **12** alla parete o alla scatola predisposta tramite le asole opportune.
8. Fissare il Tassello Antistrappo **1**, altrimenti leggere il passo seguente.

*es\** Il Deviatore Antistrappo è inefficace quando la Tastiera viene fissata ad una scatola.







9. Riagganciare la Scheda Elettronica **11** al Fondo **12**.
10. Collegare il Deviatore Antistrappo **2** al connettore **5**, altrimenti leggere il passo seguente.
11. Impostare il Livello BPI come descritto nel paragrafo omonimo.
12. Impostare l'Indirizzo, come descritto nel paragrafo omonimo.
13. Eseguire i collegamenti sulla morsettiera **10** come descritto nel paragrafo omonimo.
14. Riagganciare il Coperchio **16** al Fondo **12**.
15. Avvitare le viti **15**.

### Livello BPI

Il Livello BPI della Tastiera deve essere uguale a quello della centrale alla quale sarà collegata (leggere le istruzioni della centrale per conoscere il suo Livello BPI).

*es\** Il Livello BPI delle centrali della linea Omnia ed Academy40 è 5 V.

Il Livello BPI della Tastiera si imposta tramite i ponticelli **3** e **9** come mostrato nella Tabella 1.

Tabella 1 - Impostazione Livello BPI		
Livello BPI	5 V	12 V
Ponticello 3	 BPI 5V	 BPI 5V
Ponticello 9	 12V  5V	 12V  5V

### Indirizzo

Ogni Tastiera collegata alla Centrale deve avere un indirizzo diverso.



L'Indirizzo della Tastiera si imposta tramite il banco di microinterruttori **6**, come mostrato nella Tabella 2.



*es\** La posizione dei microinterruttori n. 1 e 2 è ininfluente.



Tabella 2 - Impostazione Indirizzo			
INDIRIZZI	MICROINTERRUTTORI		
	3	4	5
1			
2			ON
3		ON	
4		ON	ON
5	ON		
6	ON		ON
7	ON	ON	
8	ON	ON	ON

### Luminosità e Contrasto del Display

☞ Per regolare la Luminosità e il Contrasto del Display, la Tastiera deve essere nello Stato di Riposo.

La Luminosità del Display si regola tramite i tasti  

- tenere premuto il tasto  per **umentare** la Luminosità;
- tenere premuto il tasto  per **diminuire** la Luminosità.



Il Contrasto del Display si regola tramite i tasti  

- tenere premuto il tasto  per **umentare** il Contrasto;
- tenere premuto il tasto  per **diminuire** il Contrasto.

☞ In casi eccezionali, il Display può perdere la Luminosità e il Contrasto regolati.

### Volume

Il Volume del Buzzer può essere regolato su tre livelli: nullo (buzzer muto), basso e alto. Il volume del Buzzer

si regola tramite il tasto  : tenere premuto il tasto fino a quando non si ottiene il volume desiderato.

I tre livelli possibili sono segnalati da beep di intensità e lunghezza diversa:

- beep corto e basso = Volume nullo (buzzer muto);
- beep di lunghezza e intensità media = Volume basso;
- beep lungo e alto = Volume alto.

### Collegamenti

La tastiera MIA-S si collega come la tastiera OmniaTAST-R.







☞ La zona **L2** non è supportata dalla tastiera MIA-S.

La tastiera MIA-S assorbe 50 mA.

☞ Questo assorbimento non include quelli relativi all'alimentazione dei dispositivi connessi alla Tastiera.

### Uso della Tastiera

Fra i tasti della OmniaTAST-R e quelli dell'MIA-S esiste la corrispondenza mostrata nella Tabella 3.

Le funzioni svolte dai Supertasti ,  e  della OmniaTAST-R, possono essere svolte anche premendo insieme i tasti   e  della MIA-S.





























































Le funzioni svolte dai tasti  e  della OmniaTAST-R, quando sono usati come Tasti Cursore, possono essere svolte anche dai tasti  e  della MIA-S.

Tabella 3 - Corrispondenza Tasti			
Omnia TAST-R	MIA-S	MIA-S (Supertasti)	MIA-S (Tasti Cursore)
		 /  	
	 abc	 abc /  	
	 def	 def /  	
	 ghi	 ghi	
	 jkl	 jkl	
	 mn	 mn	
	 <sup>rs</sup> <sub>rs</sub>	 <sup>rs</sup> <sub>rs</sub>	
	 tuv	 tuv	
	 <sup>wx</sup> <sub>yz</sub>	 <sup>wx</sup> <sub>yz</sub>	 <sup>wx</sup> <sub>yz</sub> /  
	 0	 0	 0 /  
			
			
			
			
			
			

## General Features

- New ergonomic design
- Large backlit display, 2 lines, 16 columns
- Brightness and Contrast adjustment
- Backlit keys
- 3 pairs of keys for fast activation of Burglar, Fire and Emergency alarms
- 2 Tamper Switches
- 1 Snatch Switch (optional)
- 1 Programmable zone
- Choice of Wall Anchorage

## Description

The MIA-S keypad has been designed to be used with compatible Omnia and Academy40 series Control panels.

The operating principles of the MIA-S and OmniaTAST-R keypads are the same, barring the differences described in this Instructions Insert. Therefore, please review the Control panel manual to get an overall understanding.

## Installation Guidelines

Carefully work through the following steps (see Figure 1)

1. Open the flip **14**.
2. Remove the screws **15**.
3. Remove the frontplate **16**.
4. Detach the PCB **11** from the backplate **12**.
5. Insert the Snatch Switch **2** as per Figure 1 (for keypads with Snatch Switches only).

*⚠ The Snatch Switch is optional (order code ASNC).*

6. Pull the connection wires through the wire entry **13**.
7. Using wall anchors, secure the backplate **12** to the wall or onto the outlet box.
8. Secure the Snatch bracket **1** to the wall (for keypads with Snatch Switches only).

*⚠ The Snatch Switch cannot be used when mounting the MIA-S onto an outlet box*







9. Reattach the PCB **11** to the backplate **12**.
10. Connect the Snatch switch **2** to the connector **5** (for keypads with Snatch Switches).
11. Set the BPI Level, as per the relevant instructions in the Control panel manual.
12. Assign the Address, as per the relevant instructions in the Control panel manual.
13. Complete the connections on the terminal board **10**, as per the relevant instructions in the Control panel manual.
14. Replace the Cover **16** to the backplate **12**.
15. Using the screws **15** secure the Cover.

## Setting the BPI Level

The BPI Level of the keypad must match the BPI Level of the Control panel (please refer to your Control panel manual for details).

*⚠ The BPI Level of Omnia and Academy40 series Control panels is 5 V.*

Using jumpers **3** and **9**, as per Table 1, select the keypad BPI Level.

Table 1 - Setting BPI Level		
BPI Level	5 V	12 V
<b>Jumper 3</b>	 BPI 5V	 BPI 5V
<b>Jumper 9</b>	 12V  5V	 12V  5V

## Assigning the Address



Each keypad must occupy a different Address. Using the DIP switches **6**, as per Table 2, assign the keypad Address.



*⚠ The positions of DIP switches no. 1 and no. 2 are irrelevant.*

Table 2 - Address Settings			
ADDRESS	DIP SWITCHES		
	3	4	5
<b>1</b>			
<b>2</b>			ON
<b>3</b>		ON	
<b>4</b>		ON	ON
<b>5</b>	ON		
<b>6</b>	ON		ON
<b>7</b>	ON	ON	
<b>8</b>	ON	ON	ON



## Display Brightness and Contrast

✎ *Brightness and Contrast can be adjusted during standby status only.*

Use  and  for Brightness adjustment:

- press  to increase Brightness;
- press  to reduce Brightness.


Use  and  for Contrast adjustment:


- press  to increase Contrast;
- press  to reduce Contrast.

✎ *On rare occasions, the Display may lose the programmed Brightness and Contrast.*

## Volume

The Buzzer has 3 volume levels: Off (Mute), High and

Low. Use the  key to select the level.

Press the  key until the required level is obtained.

Each level is identified by a specific beep:

- short low beep = Volume Off (Mute)
- long medium-high beep = Low Volume
- long high beep = High Volume

## Connections

Connect the MIA-S keypad as per the connection instructions of the Omnia-TAST-R keypad (refer to the Control panel manual).







✎ *The MIA-S keypad cannot manage Zone L2.*

The current draw of MIA-S is 50 mA.

✎ *This value refers to the current absorbed by the Keypad with no load (no peripherals).*

## Using the keypad

Table 3 shows the keys of the OmniaTAST-R keypad, and their coincident keys on the MIA-S keypad.

The Superkey functions of ,  and  on the OmniaTAST-R keypad can also be obtained by pressing simultaneously the relevant pair of keys on the MIA-S, that is ,  or .
























































The scroll functions of  and  can also be obtained by using  and  on the MIA-S.

Table 3 - Coincident Keys

Omnia TAST-R	MIA-S	MIA-S (Superkeys)	MIA-S (Scroll key)
		 / 	
		 / 	
		 / 	
			
			
			
			
			
			 / 
			 / 
			
			
			
			
			
			

## Caractéristique Generale

- Nouvelle conception ergonomique
- Afficheur LCD rétroéclairé, 2 lignes, 16 caractères
- Ajustement de la luminosité et du contraste
- Touches rétroéclairées
- 3 touches appairées pour alarme Feu, Panique et Police
- 2 Switiches d'autoprotection
- 1 Switch à l'arrachement (option)
- 1 Zone programmable (en fct de la centrale)
- Choix de fixation au mur

## Description

Le Clavier MIA-S a été conçu pour être employé avec les centrales Kyo, Omnia et Academy40. Les principes de fonctionnement des claviers MIA-S et OmniaTAST-R sont les mêmes, excepté les différences décrites en ce manuel d'instructions. Par conséquent, le manuel de la centrale est aussi nécessaire pour avoir vue globale.

## Installation

Respecter les étapes suivantes (voir le schéma 1)







1. Ouvrir le capot 14.
  2. Enlever les vis 15.
  3. Enlever la face avant 16.
  4. Détacher la carte 11 de la plaque arrière 12.
  5. Insérer le switch AP 2 selon le schéma 1.
- ☞ le switch AP 2 est facultatif (code ASNC).
6. Passer les câbles par le passage13.
  7. En utilisant des trous de fixations, assurez vous de la fixation de la plaque 12 au mur.
  8. Fixer le support 1 au mur (pour les claviers équipés du switch AP 2).
- ☞ le switch AP 2 ne peut pas être utilisé si le MIA-S est monté sur une boitier outlet.
9. Rattacher la carte 11 à la plaque arrière 12.
  10. Relier le switch AP 2 au connecteur 5 (si option utilisée).
  11. Placer le niveau de BPI, selon les instructions du manuel de la centrale (5 ou 12V).
  12. Adresser le clavier, selon les instructions du manuel de la centrale .
  13. Compléter les raccordements au bornier 10, selon les instructions du manuel de la centrale
  14. Remplacer laface avant16 à la plaque arrière 12.
  15. Utiliser les vis 15 bloquées la face avant.

## Réglage du niveau de tension du Bus BPI

Le niveau BPI des claviers doit être en accord avec le niveau de BPI de la centrale (selon les instructions du manuel de la centrale).

☞ le niveau BPI des centrales Omnia et Academy40 est 5 V.

Utiliser les jumpers 3 et 9, selon le tableau 1, pour choisir le niveau BPI des claviers.

Tableau 1 - Niveau BPI		
Niveau BPI	5 V	12 V
<b>Pontet 3</b>	 BPI 5V	 BPI 5V
<b>Pontet 9</b>	 12V  5V	 12V  5V

## Adressage

Chaque clavier doit avoir une adresse différente.



Utiliser les DIP switches 6, comme indiqué dans le tableau 2, pour définir l'adresse du clavier.

☞ La position des DIP switches 1 et 2 sont sans effet.

Tableau 2 - Adressage			
ADRESSE	DIP SWITCHES		
	3	4	5
<b>1</b>			
<b>2</b>			ON
<b>3</b>		ON	
<b>4</b>		ON	ON
<b>5</b>	ON		
<b>6</b>	ON		ON
<b>7</b>	ON	ON	
<b>8</b>	ON	ON	ON

## Réglage de la luminosité et du contraste

⚠ Ce réglage ne peut être effectué qu'au repos.

Utiliser  et  pour ajuster la luminosité:

- presser  pour augmenter;
- presser  pour diminuer.


Utiliser  et  pour ajuster le Contraste:

- presser  pour augmenter;
- presser  pour diminuer.

⚠ Dans de rares occasions, l'écran peut perdre ce réglage.

## Réglage du Volume

Le Buzzer a 3 niveaux de volume: Off (Muet), Haut et

Bas. Utiliser  pour sélectionner le niveau.

Presser  jusqu'à obtenir le niveau souhaité.

Chaque niveau est identifié par un Bip:

- Bip Court et Bas = Volume Off (Muet)
- Bip Long et Medium = Volume Bas
- Bip Long et Haut = Volume Haut

## Connexions

Connecter le clavier MIA-S comme indiqué dans le manuel de la centrale.










⚠ Le clavier MIA-S ne peut pas gérer Zone L2.

La consommation du MIA-S est 50 mA.

⚠ Cette valeur est donnée Hors Charge (rien de connecté sur L1).

## Utilisation du clavier

Le Tableau 3 présente les touches d'un clavier OmniaTAST-R, et les mêmes touches sur un MIA-S.

Les SuperTouches ,  et  du clavier OmniaTAST-R peuvent être obtenues sur le clavier MIA-S, en pressant simultanément les , ,  et  ou  et .





































Les fonctions  et  peuvent être obtenues par  et  sur un MIA-S.

Tableau 3 - Coïncidence des Touches			
Omnia TAST-R	MIA-S	MIA-S (SuperTouche)	MIA-S (Touche Curseur)
	1	1 /  	
	2 <sup>abc</sup>	2 <sup>abc</sup> /  	
	3 <sup>def</sup>	3 <sup>def</sup> /  	
	4 <sup>ghi</sup>	4 <sup>ghi</sup>	
	5 <sup>jkl</sup>	5 <sup>jkl</sup>	
	6 <sup>mno</sup>	6 <sup>mno</sup>	
	7 <sup>pqr</sup>	7 <sup>pqr</sup>	
	8 <sup>tuv</sup>	8 <sup>tuv</sup>	
	9 <sup>wxyz</sup>	9 <sup>wxyz</sup>	9 <sup>wxyz</sup> / 
	0	0	0 / 
			
			
			
			
			
			

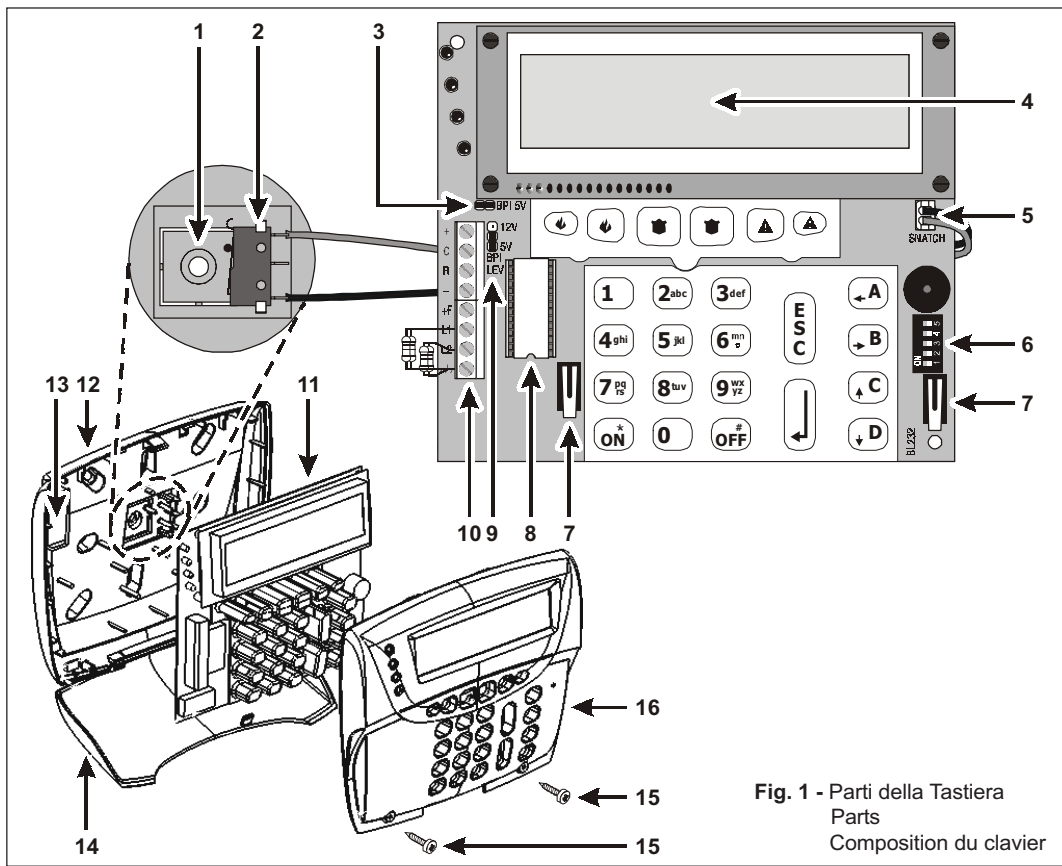


Fig. 1 - Parti della Tastiera  
Parts  
Composition du clavier

N.	DESCRIZIONE	DESCRIPTION	DESCRIPTION
1	Tassello Antistrappo	Snatch Bracket	Support d'Autoprotection à l'arrachement
2	Deviatore Antistrappo (opzionale)	Snatch Switch (optional)	Autoprotection à l'arrachement (option)
3	Ponticello per l'impostazione del Livello BPI	BPI Level Jumper	Pontet de niveau de tension de Bus BPI
4	Display	Display	Ecran LCD
5	Connettore per Deviatore Antistrappo	Snatch Switch Connector	Connecteur d'Autoprotection à l'arrachement
6	Microinterruttori per l'impostazione dell'indirizzo	Address DIP switches	DIP switches d'adressage
7	Deviatori Antisabotaggio (2)	Tamper Switch (2)	Switch d'autoprotection à l'arrachement (2)
8	Microprocessore	Microprocessor	Microprocesseur
9	Ponticello impostazione Livello BPI	BPI Level Jumper	Pontet de tension de niveau BPI
10	Morsettiera per i collegamenti	Terminal board	Bornier de câblage
11	Scheda Elettronica	PCB	Carte
12	Fondo	Backplate	Face arrière
13	Apertura per il passaggio dei cavi	Wire entry	Passage de câble
14	Sportello	Flip	Couvercle
15	Viti di chiusura (2)	Screws (2)	Vis (2)
16	Coperchio	Cover	Face avant



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