

:SR100



SR100 - (AS05190)

Centralina di controllo
ISTRUZIONI PER L'INSTALLAZIONE

Control unit
INSTRUCTIONS FOR INSTALLATIONS

I Grazie per avere scelto GIBIDI.**!** LEGGERE ATTENTAMENTE QUESTO MANUALE PRIMA DI PROCEDERE ALL'INSTALLAZIONE.

AVVERTENZE: Questo prodotto è stato collaudato in G.I.B.I.D.I. verificando la perfetta corrispondenza delle caratteristiche alle direttive vigenti. G.I.B.I.D.I. S.r.l. si riserva la facoltà di modificare i dati tecnici senza avviso, in funzione dell'evoluzione del prodotto.

SMALTIMENTO: G.I.B.I.D.I. consiglia di riciclare i componenti in plastica e di smaltire in appositi centri abilitati i componenti elettronici evitando di contaminare l'ambiente con sostanze inquinanti.

**UK** Thank you for choosing G.I.B.I.D.I.**!** PLEASE READ CAREFULLY THIS MANUAL BEFORE PROCEEDING WITH THE INSTALLATION.

WARNINGS: This product has been tested in G.I.B.I.D.I. verifying the perfect correspondence of the characteristics to the current directive. G.I.B.I.D.I. S.r.l. reserves the right to modify the technical data without prior notice depending on the product development.

DISPOSAL: G.I.B.I.D.I. advises recycling the plastic components and to dispose of them at special authorised centres for electronic components thus protecting the environment from polluting substances.

**F** Merci d'avoir choisi G.I.B.I.D.I.**!** NOUS VOUS PRIONS DE BIEN VOULOIR LIRE ATTENTIVEMENT CE MANUEL AVANT DE PROCÉDER À L'INSTALLATION.

AVERTISSEMENT: Ce produit a été testé chez G.I.B.I.D.I. afin de contrôler la correspondance parfaite des caractéristiques avec les règles en vigueur. G.I.B.I.D.I. S.r.l. se réserve la faculté de modifier les données techniques sans aucun préavis suivant l'évolution de ses produits.

ELIMINATION : G.I.B.I.D.I. conseille de recycler les composants en plastique et de remettre les composants électroniques à des centres spécialisés pour éviter de polluer l'environnement avec des substances polluantes.

**E** Gracias por haber elegido G.I.B.I.D.I.**!** POR FAVOR LEER CON ATENCIÓN ESTE MANUAL ANTES DE PROCEDER CON LA INSTALACIÓN.

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ELIMINACION: G.I.B.I.D.I. aconseja reciclar los componentes de plástico y llevar los componentes electrónicos a los centros de recogida correspondientes evitando de esta manera la contaminación ambiental con sustancias perjudiciales.

**D** Vielen Dank, dass Sie sich für G.I.B.I.D.I. entschieden haben.**!** BITTE LESEN SIE VORSICHTIG DIESEN MANUAL BEVOR MIT DER ANLAGE VORZUGEHEN.

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ENTSORGUNG: G.I.B.I.D.I. empfiehlt, Kunststoffkomponenten dem Recycling zuzuführen und elektronische Komponenten in behördlich genehmigten Zentren zu entsorgen, um die Verschmutzung der Umwelt durch Schadstoffe zu verhindern.

**P** Obrigado por ter escolhido a G.I.B.I.D.I.**!** LER COM ATENÇÃO ESTE MANUAL ANTES DE PROCEDER COM A INSTALAÇÃO.

ADVERTÊNCIA: Este produto foi testado em G.I.B.I.D.I. verificando a correspondência perfeita das características a normas vigentes. A G.I.B.I.D.I. S.r.l. reserva-se o direito de modificar os dados técnicos sem pré-aviso em função de evolução do produto.

ELIMINAÇÃO: G.I.B.I.D.I. aconselha a reciclar as componentes em plástico e a eliminar as componentes electrónicas em centros habilitados evitando desta forma poluir o ambiente com substâncias poluentes.

**NL** Dank u voor uw keuze van G.I.B.I.D.I.**!** LEES DEZE GEBRUIKSAANWIJZING ZEER AANDACHTIG ALVORENS DE INSTALLATIE AAN TE VATTEN.

WAARSCHUWINGEN: Dit product werd gekeurd in G.I.B.I.D.I. Er werd nauwlettend gecontroleerd of de kenmerken van het product perfect overeenkomen met de geldige richtlijnen.

G.I.B.I.D.I. S.r.l. behoudt zich het recht voor de technische gegevens te wijzigen zonder waarschuwing vooraf, als dat nodig is voor de evolutie van het product.

VERWERKING: G.I.B.I.D.I. adviseert om de kunststof componenten te recycleren en de elektronische componenten af te voeren naar erkende inzameelpunten, om te voorkomen dat het milieu verontreinigd wordt door vervuulende stoffen.

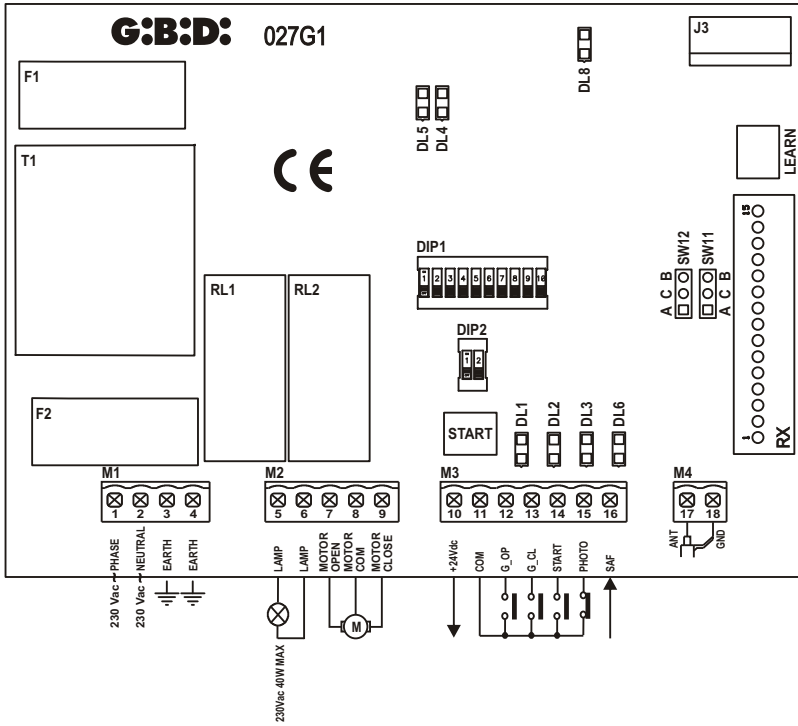
**GR** Ευχαριστούμε που επιλέξατε τα προϊόντα G.I.B.I.D.I.**!** ΠΑΡΑΚΑΛΟΥΜΕ ΝΑ ΔΙΑΒΑΣΤΕ ΠΡΟΣΕΚΤΙΚΑ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ ΠΡΙΝ ΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ.

ΣΗΜΕΙΩΣΗ: Η εταιρία G.I.B.I.D.I. έχει ελέγξει αυτό το προϊόν όσον αφορά την τέλεια προσαρμογή των χαρακτηριστικών του στην ισχύουσα νομοθεσία. Η εταιρία G.I.B.I.D.I. S.r.l. διατηρεί το δικαίωμα αλλαγών των τεχνικών προδιαγραφών χωρίς προϋπάρχουσα ειδοποίηση και ανάλογα με την ανάπτυξη των προϊόντων της.

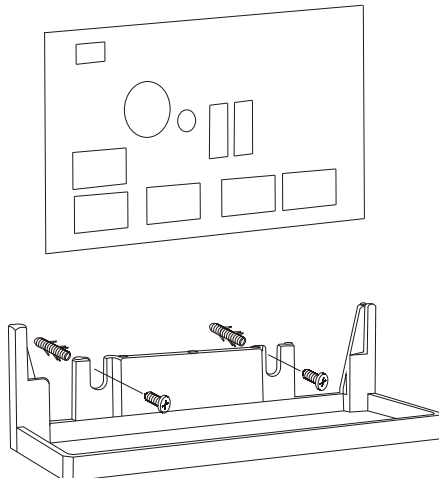
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Control unit	SR100 / AS05190
Type	Electronic control unit for the automation of a shutter motor
Power supply	230Vac monophase 50/60 Hz
N° motors	1
Motor power supply	230 Vac
Flashing light	230Vac 25W max
Accessories power supply	24Vdc 1,2W max
Functioning time	125 s max
Pause time	125 s max
Radio receiver	433,92 Mhz on board
Operating temperature	-20°C +60°C

TECHNICAL SPECIFICATIONS / FUNCTIONS

- Red warning led of n.c. contacts (photo).
- Green warning leds of n.o. contacts (start, general_open, general_close).
- Green warning leds of phases during time learning procedure.
- Yellow warning led for emergencies
- Red warning led of radio codes learning
- Key LEARN to memorize radio codes
- Key START on board.
- Possibility of using the SAF input as limit switch.
- Time self-learning.

INSTALLATION WARNINGS

- Before proceeding with the installation, fit a magnetothermal or differential switch with a maximum capacity of 10A upstream of the system. The switch must guarantee omnipolar separation of the contacts, with an opening distance of at least 3 mm.
- To prevent possible interference, differentiate and always keep the power cables (minimum cross-section 1,5mm²) separate from the signal cables (minimum cross-section 0,5mm²).
- Make the connections referring to the following tables and to the attached screen-print. Be extremely careful to connect in series all the devices that must be connected to the same N.C. (normally closed) input, and in parallel all the devices that share the same N.O. (normally open) input. Incorrect installation or improper use of the product may compromise system safety.
- Keep all the materials contained in the packaging away from children, since they pose a potential risk.
- The manufacturer declines all responsibility for improper functioning of the automated device if the original components and accessories suitable for the specific automation are not used.
- At the end of the installation, always check carefully the proper functioning of the system and the devices used.
- This instruction manual addresses people qualified for the installation of "live equipment". Therefore, good technical knowledge and professional practice in compliance with the regulations in force are required.
- Maintenance must be carried out by qualified personnel.
- Before carrying out any cleaning or maintenance operation, disconnect the control unit from the mains.
- This control unit may only be used for the purpose for which it was designed.
- Use of the product for purposes different from the intended use has not been tested by the manufacturer, therefore any work is carried out on full responsibility of the installer.

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- Mark the automated gate with visible warning plates.
- Warn the user that children and animals may not play or stand around near the gate.
- Appropriately protect the dangerous points (for example, use a sensitive frame).

WARNINGS FOR THE USER

In the event of an operating fault or failure, cut the power upstream of the control unit and call Technical Service. Periodically check functioning of the safety devices. Any repairs must be carried out by specialised personnel using original and certified materials.

The product is not to be used by children or people with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction. Do not intervene on the board for regulations and/or maintenance.



WARNING: IMPORTANT SAFETY INSTRUCTIONS

For people's safety, it is important to follow these instructions. Please keep this manual.

ELECTRICAL CONNECTIONS: TERMINALBOARDS

Terminal	Position	Signal	Description
M1	1	N	Neutral power supply 230 Vac
	2	L	Power supply phase 230 Vac
	3	EARTH	Ground connection
	4	EARTH	Ground connection
M2	5	LAMP	Flashing light output 230Vac 25W
	6	LAMP	Flashing light output 230Vac 25W
	7	OPEN	Motor connection (opening)
	8	COM	Common motor
	9	CLOSE	Motor connection (closing)
M3	10	24VDC	External accessories 24 Vdc power supply
	11	GND	External accessories power supply. Common Inputs – Outputs
	12	G_OP	Input GENERAL_OPEN (N.O.)
	13	G_CL	Input GENERAL_CLOSE (N.O.)
	14	START	Input START (N.O.)
	15	PHOTO	Input PHOTOCCELL (N.C.). Active only during closing.
	16	SAF	Input SAFETY DEVICES. See DIP 9-10
M4	17	+ ANT	Input ANTENNA SIGNAL
	18	- ANT	Input ANTENNA BRAID
J3	Connector for connexion to the programmer PRG_01		

PROTECTION FUSES

Position	Value	Type	Description
F1	500 mA	RAPIDO	Accessories power supply input protection
F2	5 A	RAPIDO	Board protection on 230 Vac power supply input

FUNCTIONS PROGRAMMING (DIP SWITCH DIP1)

The settings are memorized during the pause phase (door closed).

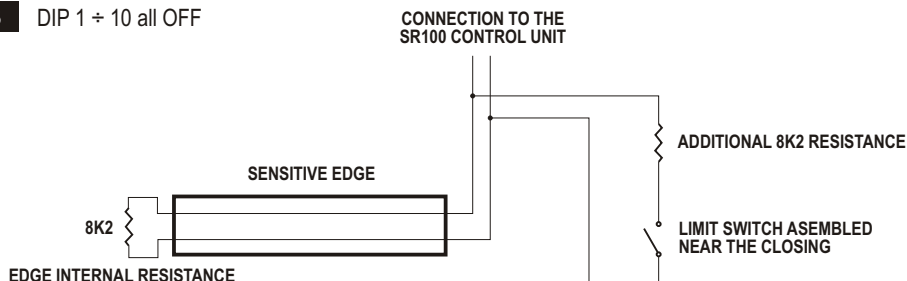
DIP	Status	Function	Description
DIP 1	ON	TIME LEARNING	Enables the time learning procedure
	OFF		Normal functioning
DIP 2 DIP 3	OFF OFF	STEP – STEP STOP STOP	I Start pulse: OPENS II Start pulse: STOPS (it will not close automatically) III Start pulse: CLOSES IV Start pulse: STOPS
DIP 2 DIP 3	ON OFF	STEP - STEP	I Start pulse: OPENS II Start pulse: CLOSES III Start pulse: OPENS
DIP 2 DIP 3	OFF ON	CONDOMINIUM	During opening, it does not receive other START commands after the first one, in pause other START commands reload the pause time. I Start pulse: OPENS Next Start pulses: uninfluential Pause from FCA or end of opening time Start pulse during pause: reloads pause time (if automatic closing is enabled) or CLOSES (if automatic closing is disabled) Start pulse during closing: OPENS
DIP 2 DIP 3	ON ON	NOT ENABLED	
DIP 4	ON	EXTERNAL COMMANDS MANAGEMENT	The keys GENERAL_OPEN and GENERAL_CLOSE work with DEAD MAN logic. Keeping the key pressed, the motion stops for one second and then the manoeuvre starts.
	OFF		The key GENERAL_OPEN manages only opening. Keeping the key pressed, the motion stops for one second and then the manoeuvre starts. The key GENERAL_CLOSE manages only the closing. Keeping the key pressed, the motion stops for one second, then the manoeuvre starts.
DIP 5 DIP 8	OFF ININFL.	RADIO INPUT MANAGEMENT	Channel 1 transmitter: opens Channel 3 transmitter: closes Channel 2 and 4 transmitter: stops the motion
DIP 5 DIP 8	ON OFF		The control unit recognizes only one radio input set with the DIP 6 and 7
DIP 5 DIP 8	ON ON		The control unit recognizes only one radio input set with the DIP 6 and 7 but: the continuous pressure for 3 s on the channel 1 of the transmitter manages the opening of ALL the control units on which the transmitter is memorized; the continuous pressure for 3 s on the channel 3 of the transmitter manages the closing of ALL the control units on which the transmitter is memorized.

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DIP	Status	Function	Description
DIP 6 DIP 7	OFF OFF	RADIO CHANNELS SETTING	Channel 1 of the transmitter works as START.
DIP 6 DIP 7	OFF ON		Channel 2 of the transmitter works as START.
DIP 6 DIP 7	ON OFF		Channel 3 of the transmitter works as START.
DIP 6 DIP 7	ON ON		Channel 4 of the transmitter works as START.
DIP 9 DIP 10	OFF OFF	SAFETY INPUT MANAGEMENT	It sets the SAF input as STOP with contact NC. In case of intervention: door closed: the control unit does not open; in opening: it stops the motion and the next START will cause the closing; in pause: it does not allow closing and the next start will cause the closing; in closing: it stops the motion and the next start will cause the opening.
DIP 9 DIP 10	OFF ON		It sets the SAF input as STOP with contact NO. In case of intervention: Doro closed: the control unit does not open; in opening: it stops the motion and the next start will cause the closing; in pause: it does not allow closing and the next start will cause closing; in closing: it stops the motion and the next start will cause the opening. Please make sure that the dip STOP NC is on OFF.
DIP 9 DIP 10	ON OFF		It sets the SAF input as 8K2 EDGE WITHOUT LIMIT SWITCHES. In case of intervention: door closed: the control unit does not open; in opening: stop and motion inversion for 2 s. at next start pulse the motion starts in the obstacle-freeing direction; in pause: it does not allow closing and the next start will cause closing; in closing: stop and motion inversion for 2 s. At next start pulse the motion restarts in the obstacle-freeing direction.
DIP 9 DIP 10	ON ON		It sets the SAF input as 8K2 EDGE WITH LIMIT SWITCHES. The functioning is the same as the previous point, but with possibility of reading the limit switches switch The enabling of this switch before the edge activation is recognized as limit switch. In this case, the control unit is not blocked because of the edge intervention. It is necessary that the switch connects in parallel to the 8K2 internal resistor of the edge another one having the same value. (3)

DEFAULT SETTINGS

3 DIP 1 ÷ 10 all OFF



If the 8K2 external resistor is always in parallel to the edge, the intervention of the same edge is recognized as limit switch.

FUNCTIONS SETTING (DIP SWITCH DIP2)

Settings are memorized when the door is closed.

DIP	Status	Function	Description
DIP1	ON	PHOTOCELL	Disables PHOTO input
	OFF		PHOTO input enabled
DIP 2	ON	STOP NC	Disables SAF input set as STOP with NC contact
	OFF		Enables SAF input set as STOP with NC contact. Enables 8K2 edge reading

DEFAULT SETTINGS

DIP1 ON
DIP2 ON

SIGNALLING LEDS

Led	Colour	Signal	Description
DL1	Green	GENERAL OPEN	It switches on when the contact is closed
DL2	Green	GENERAL CLOSE	It switches on when the contact is closed
DL3	Green	START	It switches on when the contact is closed
DL4	Green	MEMO	See "Times learning procedure"
DL5	Yellow	SAFETY	The led switches on with the SAF input enabled. It remains on for 2 s, then it switches off and, after a few seconds, on again.
DL6	Red	PHOTOCELL	It switches off when the photocell contact opens
DL7	Red	RADIO	See "On board radio management"

ON BOARD RADIO MANAGEMENT

SPECIFICATIONS

Radio receiver 433,92 MHz
Memorizable codes max 200

CODES LEARNING

Press the LEARN key, the DL8 led switches on (it remains on for 6 s, then it switches off).

Press the key selected with the dip n° 6 – 7 of the transmitter that has to be set, and the receiver gives a start command to the control unit. Without pressing again the LEARN key, it is possible to memorize other transmitters of the same kind one after the other until the DL8 led remains on. After the learning of the last transmitter, wait until the led switches off (about 6 s) to indicate that the system has left the learning procedure and is now ready for the standard work.

Without pressing the LEARN key, it is possible to memorize the transmitters just by pressing simultaneously the keys 1 and 2 of a transmitter already memorized on the control unit for about 6 s. In this way, the transmitter enters the code learning mode; it is now necessary only to press any of the keys of the new transmitter that has to be memorized.

MEMORY DELETION

In case of mistake, or when the complete deletion of all codes is necessary, press the LEARN key (the red led switches on) and keep it pressed until the led switches off.

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CONFIGURATION JUMPER

SW11		
Configuration	Functioning mode	Description
OPEN	HCS ROLLING	Standard rolling code functioning with variable code
C - B	HCS FIX	Rolling code functioning with fixed code manageable with PRG_01 Console
A - C	DIP SWITCH	Fixed code functioning with dip switch

SW12		
Configuration	Functioning mode	Description
OPEN	NORMAL	Standard functioning
A - C	AUA	A transmitter set by means of the PRG_01 programmer as another one is automatically memorized in the event of continuous transmission for 5 s (HCS ROLLING)

TIMES LEARNING PROCEDURE

- When the door is closed, place the DIP n°1 (DIP SWITCH DIP1) on ON. The green led DL4 flashes fast.
In this phase, if the DIP n°1 is put on OFF you leave the procedure, the memorized data remain stored and the next START command will cause the opening.
- START → The motor moves in opening. The green led DL4 keeps on flashing fast. The DIP n° 1 becomes uninfluential.
- START → The motor stops in opening and the green led DL4 switches on fixed. The control unit waits for commands.
If in this phase the DIP n°1 is put on OFF, you leave the procedure, only saving the work time and disabling the automatic closing. The green led DL4 switches off and the next START command will cause the closing.
- START → The pause time counting starts. The green led DL4 flashes slowly.
In this phase, if the DIP n°1 is put on OFF, you leave the procedure, only saving the work time and disabling the automatic closing. The green led DL4 switches off and the next START command will cause the closing.
- START → It ends the pause time counting, the work time and the pause time are memorized. The green led DL4 remains on fixed.
- To leave the times learning procedure, put the DIP n° 1 on OFF and the next START command or GENERAL_CLOSE will cause the closing.

To modify the memorized times, it is necessary to repeat the above procedure.

WARNING

During the times learning phase, the PHOTO, SAF, GENERAL_OPEN, GENERAL_CLOSE are disabled.
If the radio command is used as START, pay attention to the correct configuration of the dip n. 5-6-7-8.

DEFAULT VALUES

Work time: 30 s

Automatic closing disabled.

CE Declaration of conformity

The manufacturer:

GI.BI.DI. S.r.l.

Via Abetone Brennero, 177/B,
46025 Poggio Rusco (MN) ITALY

Declares that the products:

ELECTRONIC CONTROL UNIT SR100

are in conformity with the following CEE Directives:

- **LVD Directive 2006/95/CE and subsequent amendments;**
- **EMC Directive 2004/108/CE and subsequent amendments;**

and that the following harmonised standards have been applied:

- **EN60335-1, EN50366**
- **EN61000-6-2, EN61000-6-3**

Date 15/01/09

Managing Director
Oliviero Arosio



■ a **BANDINI INDUSTRIE** company



ISO 9001 Cert. N. 0079

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