

:CL100

CE UK
CA

CL100 - (AS05200)

Control unit
INSTRUCTIONS FOR INSTALLATION

UK

Thank you for choosing GIBIDI.



READ CAREFULLY THESE INSTRUCTIONS BEFORE PROCEEDING WITH INSTALLATION.

WARNINGS: This product has been tested by G.I.B.I.D.I. for full compliance with the requirements of the directives in force. G.I.B.I.D.I. S.r.l. reserves the right to change the technical data without prior notice in relation to 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.



ELECTRICAL CONNECTIONS

1

G:B:D: 032G1

DIP2



TR1 TIME

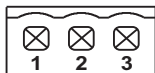
DIP1



DL1



M1

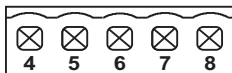


L / S

S12/24
L12/24

L230

M2



+ 12/24

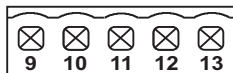
- 12/24

START

LUX

COM

M3



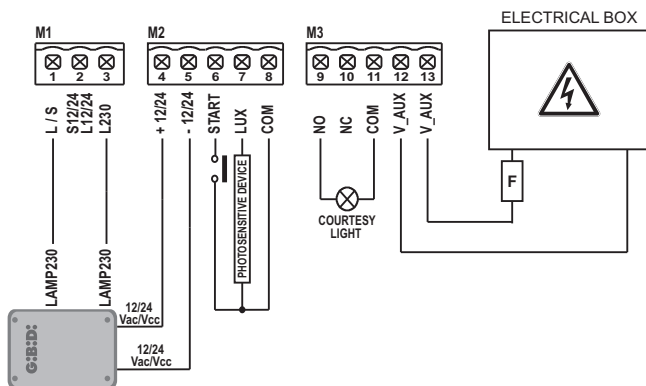
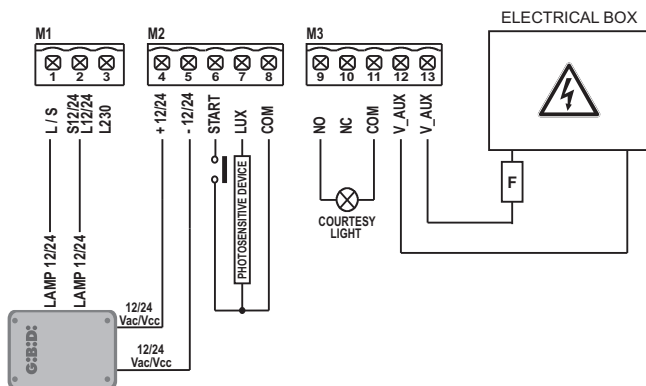
NO

NC

COM

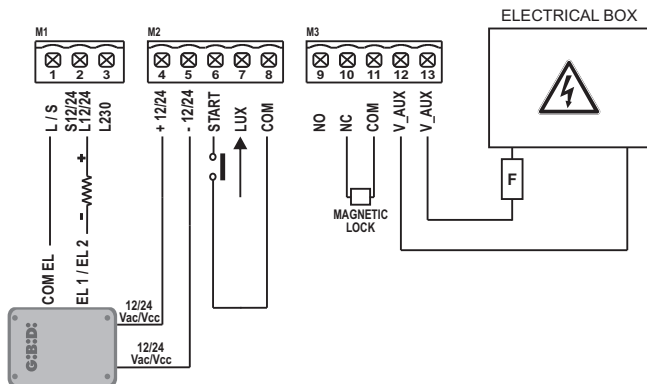
V_AUX

V_AUX

COURTESY LIGHT MANAGEMENT WITH FLASHING LIGHT 230 Vac INPUT**2****COURTESY LIGHT MANAGEMENT WITH FLASHING LIGHT 12/24 Vac/Vdc INPUT****3**

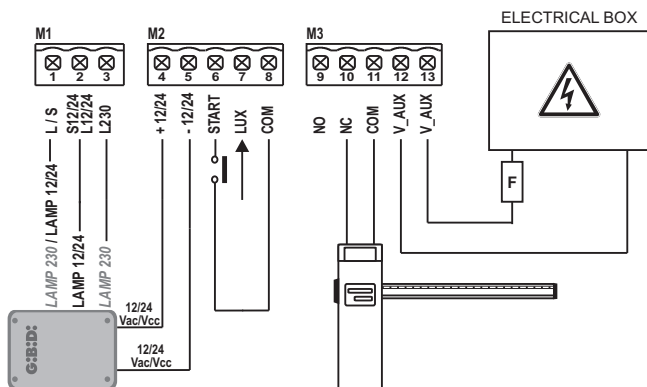
ELECTROMAGNET MANAGEMENT WITH ELECTRIC LOCK 12/24 Vac/Vdc INPUT

4



BARRIER LIGHTS MANAGEMENT WITH FLASHING LIGHT 12/24 Vac/Vdc OR 230Vac INPUT

5



UK

Control unit	CL100 / AS05200
Type	Electronic card for the management of an external courtesy light, barrier rod light or an electromagnet
Power supply	12/24 Vac-dc
Relay Contact	250 Vac 16 A
Operating temperature	-20°C +60°C

PRODUCT DESCRIPTION

The electronic card AS05200 can be used for the management of an external courtesy light, barrier rod lights or an electromagnet. It is not possible to use the three modalities at the same time.

On the card, there is an input for a detector of external light, so that the courtesy light does not turn on if it is not necessary.

TECHNICAL SPECIFICATIONS/FUNCTIONS

- Green LED signalling the START input.
- Input for detector of external light (LUX).
- Trimmer for the setting of the enabling time of the courtesy light output.
- Dip switch for the setting of the operating modalities and for the times control.
- Possibility to connect GBD control units with 12/24 Vdc flashing light output.
- Possibility to connect GBD control units with 230 Vac flashing light output.

INSTALLATION WARNINGS

- Before starting 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. Check the aim of the final use and make sure that all safety measures are taken.
- 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.

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. Any repairs must be carried out by specialised personnel using original and certified materials.
The appliance 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 touch the card for adjustments and/or maintenance.



WARNING: IMPORTANT SAFETY INSTRUCTIONS.

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

ELECTRICAL CONNECTIONS: FASTONS

Terminal	Position	Signal	Description
M1	1	L/S	Common flashing light/electrical lock
	2	S12/24 L12/24	Flashing light or 12/24 electrical lock input
	3	L230	230 V flashing light input
M2	4	+ 12/24	12/24 V power supply card input
	5	- 12/24	12/24 V power supply card input
	6	START	START input
	7	LUX	Photoresistance input
	8	COM	Common START and LUX
M3	9	NO	NO Contact
	10	NC	NC Contact
	11	COM	Common Contacts
	12	V_AUX	230 V or 12/24 V input for courtesy light or electromagnet power supply
	13	V_AUX	230 V or 12/24 V input for courtesy light or electromagnet power supply

PROTECTION FUSES

Position	Value	Type	Description
RT1	250 mA	RESTORABLE	Card power supply input protection

NOTE: The restorable fuse intervenes in case of anomalous operating conditions, breaking the circuit. It is automatically restored with normal operating conditions so that the card goes back to its correct operation.
If the fuse is not restored automatically, carefully check the devices externally connected to the card.

SETTINGS - dip switch dip1

Dip	Status	Function	Description
DIP1	ON	12 Vac/dc	Power supply input preset for 12 V
	OFF	24 Vac/dc	Power supply input preset for 24 V
DIP2	ON	START	Bistable START command
	OFF	START	Monostable START command

UK**DEFAULT SETTINGS**

DIP1	OFF
DIP2	OFF

SETTINGS - dip switch dip2

Dip	Status	Function	Description
DIP1	ON		Courtesy light max t 55 s.
DIP2	OFF		The time can be set with the trimmer TR1.
DIP1	OFF		Courtesy light max t 72 s.
DIP2	ON		The time can be set with the trimmer TR1.
DIP1	ON		Courtesy light max t 120 s.
DIP2	OFF		The time can be set with the trimmer TR1.
DIP1	ON		Courtesy light max t 257 s.
DIP2	ON		The time can be set with the trimmer TR1.

DEFAULT SETTINGS

DIP1	OFF
DIP2	OFF

TRIMMER

Position	Description
TR1	Sets the courtesy light enabling time from 1 to 257 s according to the dip switch DIP2 position.

DEFAULT SETTINGS

TR1 positioned at the minimum

PRODUCT OPERATION**TIMED COURTESY LIGHT MANAGEMENT****1. ENABLING BY FLASHING LIGHT**

For the management of a light synchronized to the gate motion, it is necessary to use the flashing light signal in input (clamps 1 -2 if the flashing light works at 12/24 V; clamps 1-3 if the flashing light works at 230 V) and in output the normally open contact of the Relay (clamps 9-11)

Following an impulse on the input, the courtesy light output is enabled for the time set with the dip 1 and 2 of the DIP2 and the trimmer TR1 adjustment.

The courtesy light enabling time starts when the signal is no longer detected on the flashing light input. Continuous activations of the flashing light input zero the time.

2. ENABLING WITH START SIGNAL

It is possible to enable the courtesy light directly with a START command.

If the START input is configured as bistable, following a START signal the light turns on and remains on until the next START impulse.

If the START impulse is configured as monostable, the light is enabled following a START command and remains on for the time set with the trimmer TR1 and the dip switch DIP2.

ELECTROMAGNET MANAGEMENT

For an electromagnet management, it is necessary to use the electrical lock signal in input (clamps 1-2) and in output the NC contact of the Relays (clamps 10-11). It is necessary to position both the dip 1 and the 2 of the DIP2 on OFF and set the trimmer TR1 at the minimum.

Normally the electromagnet is always enabled. Following a signal on the electrical lock input, the electromagnet output is disabled.

NOTE: If the card is connected to a GBD control unit, always check the power available for the electromagnet power supply.

BARRIER ROD LIGHTS MANAGEMENT

For the barrier rod lights management, it is necessary to use the flashing light signal in input (clamps 1-2 if the flashing light works in 12/24 V; clamps 1-3 if the flashing light works in 230 V) and the normally closed contact of the Relay in output (clamps 10-11). With this connection, the rod lights will be turned on when the rod is both opened and closed, whereas they will blink when the rod is moving.

It is necessary to set the trimmer TR1 at the minimum and the output will blink following the flashing light pulses.

PHOTORESISTANCE INPUT OPERATING MODALITY

The photoresistance input (LUX) is used to avoid that the courtesy light turns on if there is external light.

If the input remains free, the functioning of the card is the one described above.

If you connect an adjustable photosensitive element to the LUX input, it will be possible to set the threshold of external brightness above which the device will not work by adjusting its sensitivity.

The light command is stopped when the voltage on the LUX clamp is less than or equal to 3,95 V, which corresponds to a photoresistance value less than or equal to 8,1 KOhm.

EU Declaration of conformity

The manufacturer:

G.I.B.I.D.I. S.r.l.
Via Abetone Brennero, 177/B,
46025 Poggio Rusco (MN) ITALY

declares that the products:

ELECTRONIC CONTROL UNIT CL100

are in conformity with the following Directives:

- **2014/35/UE**
- **2014/30/UE**

and that the following harmonised standards have been applied:

- **IEC 61000-6-1:2016 RVL**
- **IEC 61000-6-2:2016 RVL**
- **IEC 61000-6-3:2020**
- **IEC 60335-2-103:2015+AMD1:2017+AMD2:2019 CSV**

Date 30/09/2021

The legal Representative
Michele Prandi

**UKCA manufacturer declaration:**

The UKCA declaration is available at <http://conformity.gibidi.com>

GIBIDI

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