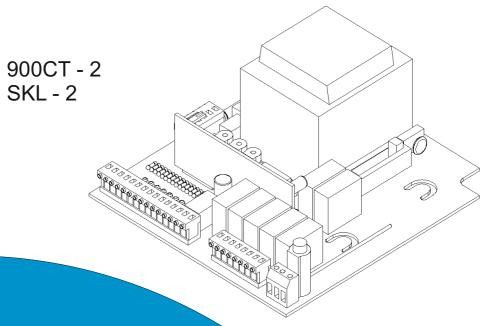
Centralina elettronica Control unit Armoires de commande Steuerung Récepteur Centralitas Unidades de controlo



- MANUALE ISTRUZIONI
- **(B)** INSTRUCTION MANUAL
- F LIVRET D'INSTRUCTIONS
- D ANLEITUNGS HEFT
- **E** MANUAL DE INSTRUCCIONES
- MANUAL DE INSTRUÇÕES



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SAFETY

We congratulate you for the excellent choice.

This handbook will help you during the installation of your gear motor. You will find explanation regarding gear motor's functions and safety rules, which will always grant you a perfect operating and maximum safety. In order to avoid damages on your equipment or to injure yourself and other persons, please read carefully and completely the present handbook before installing the gear motor. Preserve the instructions, so that everyone can consult them before using the motor.

We decline all consequences, coming from wrong motor use or non-observance of the listed precautions.

In case of malfunction, switch off immediately the motor.

In case of reparations, be sure that supply has been turned off.

Don't try to dismount the motor, if your not authorized technician.

Don't expose to fire or heat sources, don't dip in water or other liquids.

Use proper supply cables.

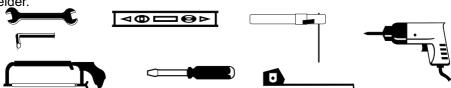
SAFETY RULES

During installation, follow carefully the following saftey rules:



EQUIPMENT

For installation you need following equipment: keys, screwdriver, rule, saw, drill, welder.



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THIS HANDBOOK IS APPOINTED FOR THE INSTALLER ONLY The installation has to be carried exclusively by qualified personnel according to the curret law disposal

MODELS AND SPECIFICATIONS

Control unit 230V box for two motors, with electric clutch, logical control card,pre-set for radio card insertion.

TECHNICAL DATA

SUPPLY 230Vac/50-Hz

OUTPUT SUPPLY 24Vdc/400mA

ACCESSORIES

OPERATING TIME 2-60 sec

PAUSE TIME 2-180 sec

PROTECTION DEGREE IP 54

OPERATING TEMPERATURE -20°/+70°



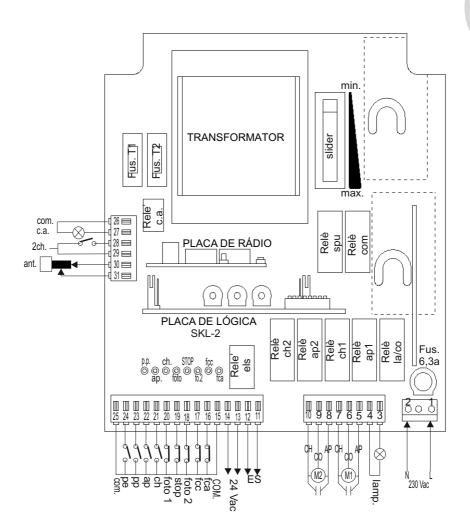
Carefully read all instructions prior to installation. Failure to observe the above instructions, improper use or connection errors may impair the safety or correct operation of the device and consequently the entire system.

The manufacturer declines all liability for malfunctions and/or damage caused by failure to observe instructions and specifications.

The company reserves the right to apply modifications for product improvements.

SET PANEL 900CT-2

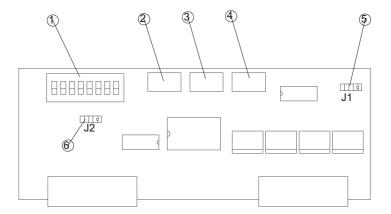
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TERMINAL BOARD CONNECTIONS

1-2	230VAC	230Vac 50 Mhz mains power supply.
3-4	FLASHING UNIT	Outlet for flashing/courtesy lamp (selection between flashing unit and courtesy lamp is set on the relative J2 jumper) max. 230Vac 25W for flashing unit, max. 100W for courtesy lamp.
5-6-7	MOTOR M1	Output for motor 1 with delay on opening; time interval is fixed at one second. 230Vac 400VA max.
8-9-10	MOTOR M2	Output for motor 2 delayed on closing by means of trimmer TR of SKL-2. 230Vac 400VA max.
11-12	ELECTRIC LOCK	12Vdc output that remains active from 0.5 seconds before to 4 seconds after start-up of motors on opening. 15W max.
13-14	24Vac	24Vac output for auxiliary power supply (photo, radio etc.)
15-16	OPEN LIMIT SWITCH	Input for open limit switch
15-17	CLOSE LIMIT SWITCH	input for close limit switch
15-18	PHOTOCELL 2	Input for safety devices also on opening (photcells, safety edges)
15-19	STOP	Input for stop command (emergency, external safety lock)
15-20	PHOTOCELL 1	Input for safety devices (photocells, safety edges)
21-25	CLOSE	Input for close command
22-25	OPEN	Input for open command
23-25	STEP	Input for sequential operating mode (open stop close stop)
24-25	PEDESTRIAN	Input for pedestrian command
25-15	COMMON	Common entrance
26-27	G.O. IND. LAMP	Output for Gate Open indicator lamp 24Vac max 2W
28-29	OUTPUT 2 CHANNEL	Output 2° channel SK radio.
30-31	AERIAL	Input for radio receiver aerial

SET PANEL 900SKL-2



1 DIP SWITCH FUNCTION See standard operation options.

2 TRIMMER TP Adjustment of pause time before automatic

gate closing from 2sec to 3min.

3 TRIMMER TL Adjustment of motor working time

from 0 to 60 sec.

4 TRIMMER TR Adjustment of closing delay time

of motor M2 from 2 to 10 sec

5-6 J1 - J2 See standard operation options.

SELECTION JUMPER

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INSTALLATION

Device installation must be carried out professionally by personnel with qualifications as specified by current legislation.

To guarantee safety of the operator and prevent damage to parts during connections, both low voltage (230 V) and very low voltage (24 V) or when connecting the radio card, the control unit must always remain disconnected from the power supply.

Always keep power supply cables separate from control cables. In the case of power cables, motor lines, flashing unit/courtesy lamp lines and electric lock, use cables with a minimum section of 1,5 mm 2; in the case of auxiliary utilities, commands and safety contacts, use cables with a minimum section of 0,5 mm 2. When control cables are very long (over 30 m) disconnection by means of relays in the control unit is recommended.

If a fuse trips, after eliminating the cause, replace with a version with the same characteristics.

Install all safety devices, limit switches, photocells, safety edge, and stop pushbutton.

If one or more of the safety devices are not installed, insert a jumper in the relative terminals with the controls common contact.

All N.C. contacts related to the same input must be connected in series.

All N.O. contacts related to the same input must be connected in parallel.

Install disconnection elements on the mains power supply in an accessible location.

STANDARD OPERATION

OPEN The open command activates the flashing unit and then starts gate opening.

CLOSE The close command activates the flashing unit and then starts gate closing.

STOP The stop command stops the gate and awaits a new command.

The step command acts on the gate via a radio control or pushbutton,

setting the system to different phases:

STEP - from gate open it anticipates the closing phase

- from moving gate it changes to the stop phase

- from closed gate it changes to the opening phase

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PEDESTRIAN

The pedestrian command enables opening of one gate leaf on a 2-leaf model. If dip switch 1 is selected (sliding mode)

the gate opens for 1/3 of the working time.

The gate open indicator lamp notifies the user of the gate status.

Gate closed - lamp off.

DOOR OPEN INDICATOR

Gate in opening phase - slow flashing lamp.

Gate open - lamp lit.

Gate in closing phase - fast flashing lamp.

The photocell command ensures that on interruption of the light

beam, all controls are inhibited.

PHOTOCELL

During the opening phase, if the beam is interrupted, the gate completes travel to the normal pause position. During the pause phase, if the beam is interrupted, the gate remains in this status until the beam is restored. When the beam is restored, the gate remains in pause for a brief interval (1/4 of the set time) and then closes. During the closing phase, if the beam is interrupted, the

gate changes to the opening phase.

PHOTO 2

The command in photo 2 is activated in the opening phase causing gate shutdown. On reset gate opening is resumed. If shut down

during closing, opening is resumed.

STARTING TORQUE

Thrust is activated on opening and closing setting the maximum force for 1 sec. to then return to the set power of the autotransformer.

Working time range from 2 sec. to 60 sec. (with dip switch 4 inserted regulation range is from 2 sec. to 120 sec.).

WORKING TIME

The adjustment trimmer to facilitate brief time settings on gate movements has an exponential control range (finer at the start

of trimmer travel and is less so at the end).

PAUSE TIME

Pause time range from 2 sec. to 180 sec. N.B.: During opening, if the photocell beam is interrupted, the pause time if reduced to

1/4 of the set time.

FLASHING UNIT OR COURTESY LAMP

The courtesy lamp uses the same relay as the flashing unit, and extends operation time is selected for a fixed interval of 3 min.

STANDARD OPERATION OPTIONS

NORMAL/APARTMENT BLOCK OPERATION - This selection enables JUMPER J1 modifications to the operation of the PP input in apartment blocks; on each command via radio or pushbutton opening is activated.

FLASHING UNIT/COURTESY LAMP FUNCTION - This enables the JUMPFR J2 user to select whether to enable the output for a flashing unit or that of a courtesy lamp.

SLIDING MODE - This selection enables cancellation of delays on leaf **DIP SWITCH 1** 2 and partial opening of motor M2 with the PEDESTRIAN command.

> PHOTOCELL PAUSE ON OPENING FUNCTION - This selection enables the user to change the standard photocell operating mode. During the opening phase, if the beam is interrupted the gate stops and when the photocell beam is restored the gate resumes opening. During the closing phase, if the photocell beam is interrupted the gate

> AUTOMATIC CLOSING DISABLE FUNCTION - This selection enables

stops and when the beam is restored the gate inverts movement to open again.

DIP SWITCH 2

the user to disable the automatic closing function. On completion of **DIP SWITCH 3** opening the gate is not set to pause for the set time, but remains stationary on standby for a new close command.

WORKING TIME EXTENSION FUNCTION - This selection enables the **DIP SWITCH 4** user to double the working time of the gate from the setting

of 0 to 120 sec.

OVERPUSHING STROKE FUNCTION - This selection enables the system, on the initial opening phase, to perform a brief closure **DIP SWITCH 5** movement of the motors to facilitate mechanical release of the

electric lock.

FLASHING UNIT WARNING TIME FUNCTION - This selection enables **DIP SWITCH 6** activation of the flashing unit 3 seconds before each opening or closing

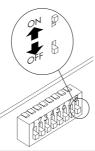
movement

STEP MODE WITH PAUSE FUNCTION - This selection enables the **DIP SWITCH 7** user to change from the standard operation of step mode (open stop

close) to an open-pause-close-pause sequence command.

DIP SWITCH 8 NOT USED

> DIP SWITCH ON **FUNCTION ACTIVE**



TESTING

Testing of the entire system where the control unit is installed must be performed by qualified personnel who must conduct all tests according to the associated risks.

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BEFORE POWERING UP THE AUTOMATION

- check all connections
- set all trimmers to minimum
- set all dip switches as required
- set the adjustment trimmer to minimum power

On completion of the above, the unit can be started up.

POWERING UP

- ensure correct operation of all inputs
- adjust the motor output to ensure compliance with current standards by means of the relative trimmer
- ensure correct direction of motor rotation
- set the work and pause trimmers
- perform the final operation test

MAINTENANCE / DISPOSAL

In the event of malfunctions, ensure exclusively qualified personnel perform repairs, maintenance or adjustments.

Dispose of all materials in compliance with current regulations.