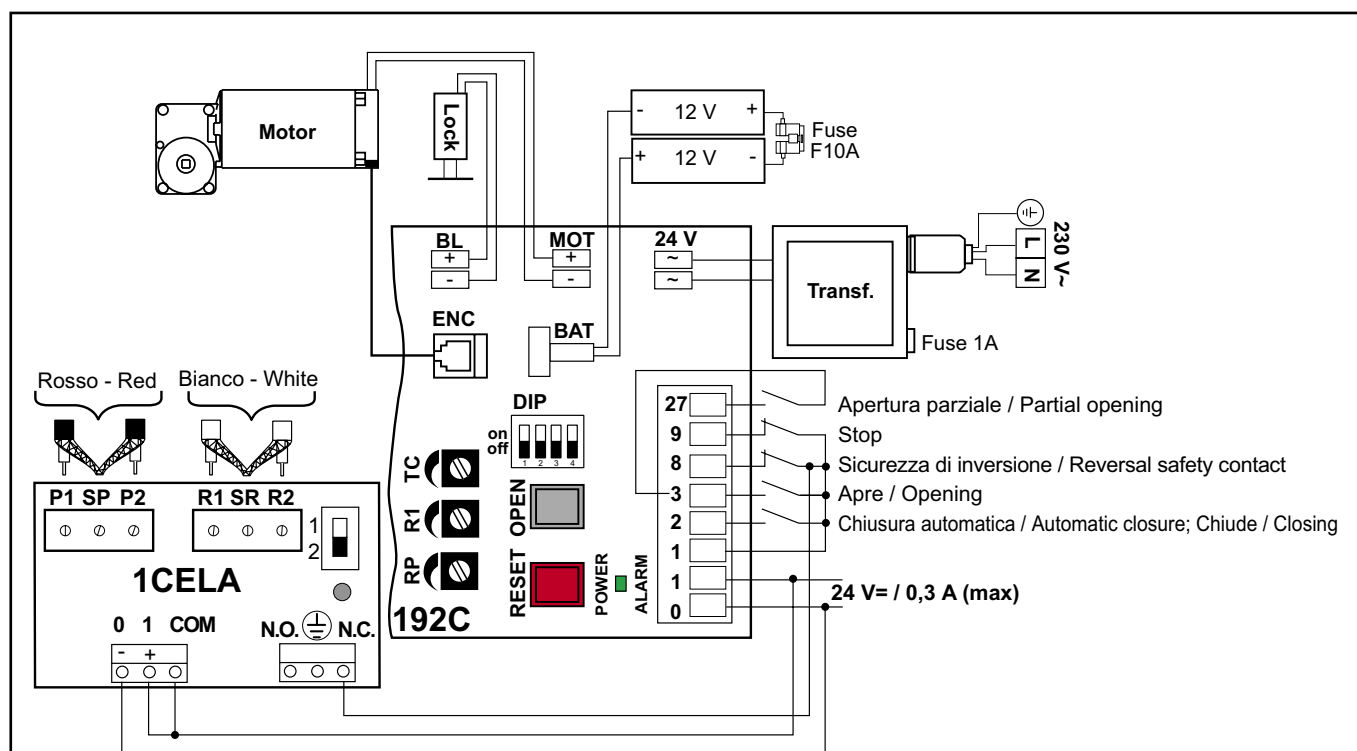




192C

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- I** Manuale di installazione quadro elettronico per automazione REX
- GB** Electric board installation handbook for REX automations
- F** Notice d'installation armoire électrique pour automatisme REX
- D** Installationsanleitung für Türsteuerung REX
- E** Manual de instalación del tablero eléctrico para automación REX
- P** Manual de instalação quadro eléctrico para automação REX



		OFF	ON
DIP1	Funzionamento blocco <i>Lock functioning</i>	Non alimentato <i>Unpowered</i>	Alimentato <i>Powered</i>
DIP2	Senso di marcia <i>Movement direction</i>	1 anta dx/2 ante <i>1 wing rt/2 wings</i>	1 anta sx <i>1 wing left</i>
DIP3	Funzionamento batterie <i>Batteries function</i>	Antipanic <i>Antipanic</i>	Continuo <i>Close</i>
DIP4	Ultima manovra con batterie scariche <i>Last operation with unloaded batteries</i>	Chiusura <i>Closing</i>	Apertura <i>Opening</i>

		MIN	MAX
R1	Spinta sugli ostacoli <i>Thrust on obstacles</i>	0%	100%
TC	Tempo chiusura automatica <i>Automatic closure time</i>	0 s	30 s
RP	Apertura parziale <i>Partial opening</i>	5%	90%

Fig. 1



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GENERAL SAFETY PRECAUTIONS

This installation manual is intended for professionally competent personnel only.

Installation, electrical connections and adjustments must be performed in accordance with Good Working Methods and in compliance with applicable regulations.

Before installing the product, carefully read the instructions.

Bad installation could be hazardous. Before installing the product, make sure it is in perfect condition.

For repairs or replacements of products only original spare parts must be used.

1. TECHNICAL DATA

Refer to technical data and CE declaration of conformity contained in the manuals for REX automations.

2. ELECTRICAL CONNECTIONS

WARNING: Link up all N.C. contacts (if not used) by means of jumpers. The terminal bearing the same number are equivalent.

2.1 CONTROLS

Control	Function	Description
1 — 2	N.O.	AUTOMATIC CLOSING A jumper across 1-2 enables the automatic closing. The timer counter starts at the end of opening manoeuvre. Expired the time, the automatic closing takes place.
1 — 2	N.O.	CLOSING Closing the contact for less than 3 seconds activates the closing manoeuvre.
1 — 3	N.O.	OPENING It starts the opening manoeuvre.
1 — 8	N.C.	REVERSAL SAFETY CONTACT Reverses movement (re-opens) during closing. When door is open, inhibits all operation.
1 — 9	N.C.	STOP It stops any movement. When the contact 1-9 is open, every normal and emergency function is excluded. <i>WARNING: When the contact is closed again, the door will resume the interrupted manoeuvre</i>
27 — 3	N.O.	PARTIAL OPENING It causes a partial opening set via trimmer RP.
CEL A PHOTOCCELL		Make the connections to the control panel as shown in figure 1. <i>Attention: In case of installation in particularly noisy environments, earth the terminal</i>

2.2 OUTPUT AND ACCESSORIES

Output/Access.	Value	Description
1 + 0 -	24 V = / 0,3 A (max)	Accessories power supply. Output for powering of external accessories.
BAT	2x12 V / 2 Ah	The battery is charged and kept charged only when the electric panel is powered from the mains; the battery is used as a buffer or in case of power failure and is cut out after voltage dropping to below 22V for 30 s. Connect mains and battery to the electric board at least half an hour before powering the installation (in order to charge the battery). To power off the electric board, cut off mains and disconnect the batteries. <i>Attention: Always ensure that the battery is connected to the electric panel. Periodically, verify the battery efficiency.</i>
BL	24 V = / 1 A	Electric lock device. Output for powering of electric lock device.
OPEN		Push button to activate the opening maneuver.
RESET		Push button to activate the RESET. The first opening and closing to be made at low speed in order to learn the end-of-travel positions (acquisition phase).

2.3 ADJUSTMENT TRIMMER



	DESCRIPTION	MIN.	MAX.
R1	Thrust on obstacles (ODS). Adjust the thrust on the obstacles before the door reopens and before the door stops against the obstacle itself. With heavy doors and/or doors with high friction, a low force setting may cause detection of a non-existent obstacle.	0%	100%
TC	Automatic closure time. It adjusts the time that elapses between the ending of opening control and the beginning of the automatic closing.	0 s	30 s
RP	Partial opening. Adjusts the passage spaciousness when the control is given between 27-3A (3B). With the trimmer set to the minimum, the opening is equal to 5% of the normal passage, with the trimmer set to the maximum the opening is equal to 90% of the normal passage. <i>Note: Set RP not less than 1/4.</i>	5%	90%

2.4 SELECTION DIP SWITCH

	DESCRIPTION	OFF	ON	FACTORY SETTING
DIP1	Locking function	Unpowered lock with closed door. When open, it cuts off power to the lock throughout the opening manoeuvre.	/	OFF
DIP2	Selection of the movement direction. The opening direction is intended by looking at the automated device from the inspection side.	Right opening for one wing doors and working for two-wing doors.	Left opening for one wing door.	OFF
DIP3	Batteries.	Antipanic operation	Continuous operation	OFF
DIP4	Unloaded batteries	Last closing operation	Last opening operation	OFF

2.5 INDICATORS

LED	ON	FLASHING
POWER ALARM	Power on 24 V=	Encoder / Automation fault.

3. START UP

ATTENTION: Before performing any procedure, make sure that the device is not powered and that the batteries are disconnected.



The operations regarding point 3.4 are without safety devices.

The trimmer can only be adjusted with door not moving

- 3.1 Set DIP 1, 3 and 4 to OFF. Set DIP 2 as described in section 2.4.
- 3.2 Set TC to the minimum, R1 and RP to the half.
- 3.3 Short circuit the safety devices (1-8) and the stop (1-9).
- 3.4 Power (mains and batteries). Give a RESET.
Note: Whenever the power supply is interrupted or the RESET key is pressed, the opening maneuver is carried out at a slower speed in order to learn the end-of-travel positions (acquisition phase). Check that door operates properly by sending several open and close commands.
- 3.5 Adjust with R1 the thrust on obstacles.
- 3.6 Remove the jumpers and connect the safety devices (1-8) and the stop (1-9).
- 3.7 Set out with DIP3 and DIP4 the working with battery.
- 3.8 Adjust the automatic closure with TC (enabled by command 1-2).
- 3.9 If desired, set the partial opening time via RP.
- 3.10 Connect any accessories and check their function.
- 3.11 If the automated device encounters an obstacle while closing, it detects it and reopens. If it encounters an obstacle while opening, it detects it and stops. In later maneuvers, the obstacle will be considered a new stop until it is removed.
Attention: check that the force from the movement and the bumping force between the wing and the obstacle is less than that provided for in the standard prEN 12650-1.

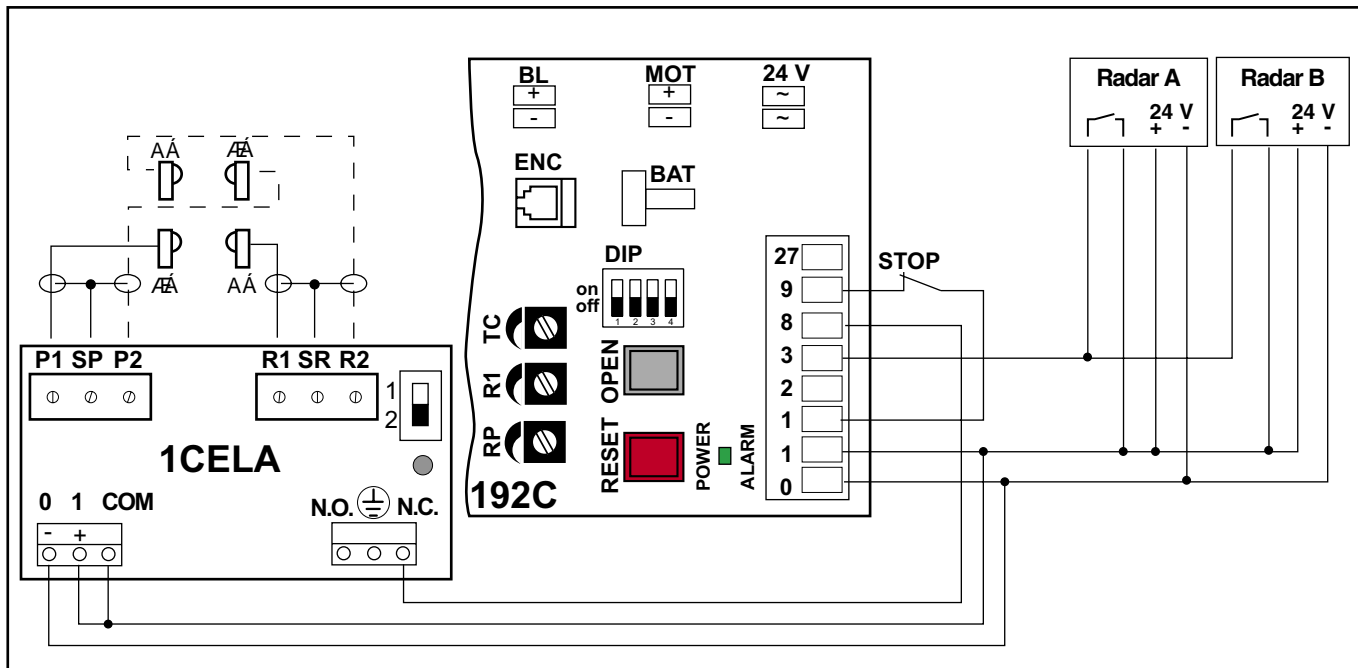
4. TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSES	REMEDY
The door doesn't open and doesn't close.	No power.	Check that electrical panel is powered (POWER ALARM LED must be steadily on).
	Accessories in short circuit.	Disconnect all accessories from terminals 0-1 (24 V= must be present) and reconnect them one at a time.
	Line fuse blown.	Replace fuse on transformer.
	Safety contacts are open.	Check terminals 8 and 9 on electrical panel and position of function selector (if present).
	The door is locked by bolts and locks.	Check that wings move freely.
The door opens but doesn't close.	I contatti di sicurezza sono aperti	Check terminal 8 on electrical panel.
	Safety contacts are open.	Check that photocells are clean and work correctly.
	Photocells are on.	Check that the radar is not subject to vibration, does not perform false detections, or presence of moving bodies in its field of action.
	Automatic close not working.	Check jumper 1-2 and position of function selector (if present).
External safeties don't trip.	Wrong connections between photocells and electrical panel.	Connect N.C. safety contacts in series and remove any jumpers.
The door opens by itself.	Radars unstable or detect bodies in motion.	Check that the radar is not subject to vibration, does not perform false detections, or presence of moving bodies in its field of action.
The door opens/closes a short distance and then stops.	Encoder broken (POWER ALARM LED flashes).	Replace encoder.
	Friction present.	Manually check that the wings move freely and adjust wing height by lifting it.

5. EXAMPLE OF APPLICATION WITHOUT SELECTOR

The automation opens with Radar's controls 1-3 it closes automatically with a 1-2 bridge. It carries out the security function over the passageway by means of Cel photocells.

The switch between 1-9 stops the automation where it is and no other standard or emergency function can be allowed.



6. EXAMPLE OF APPLICATION WITH ComH-ComK SELECTOR

The automation opens with Radar's controls 1-3, it closes automatically according to the function chosen on the selector. It carries out the security function over the passageway by means of Cel photocells.

With selector in STOP position every normal and emergency working is cut off.

