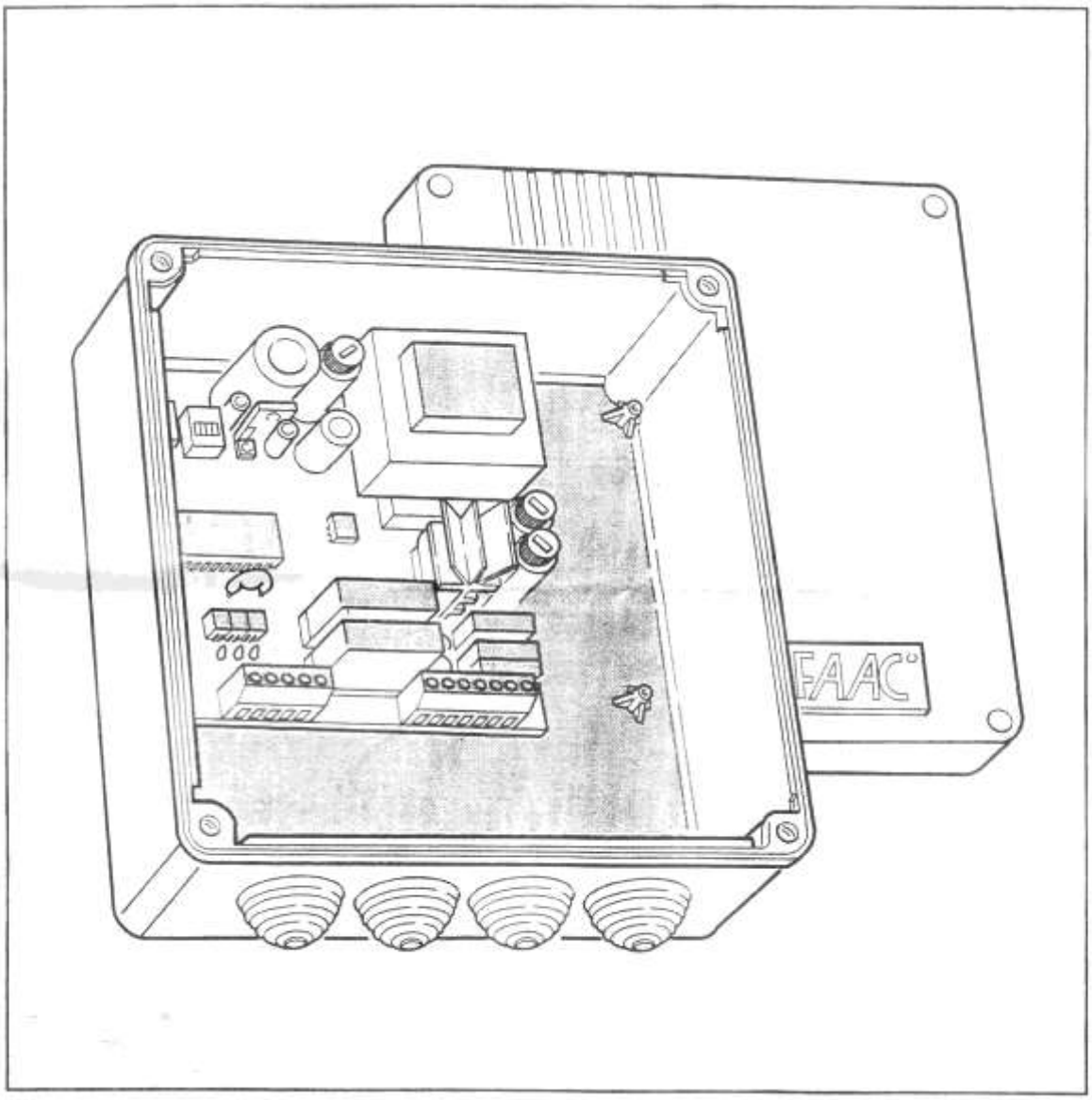
# 200 MPS




FAAC

7LEAFLET200MPS Issue 03

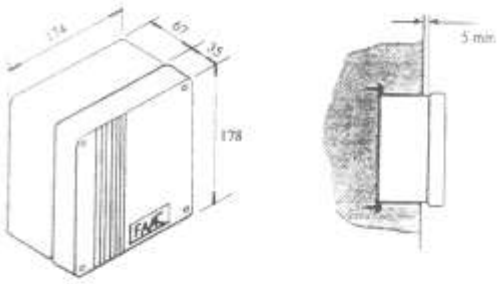
ENGLISH

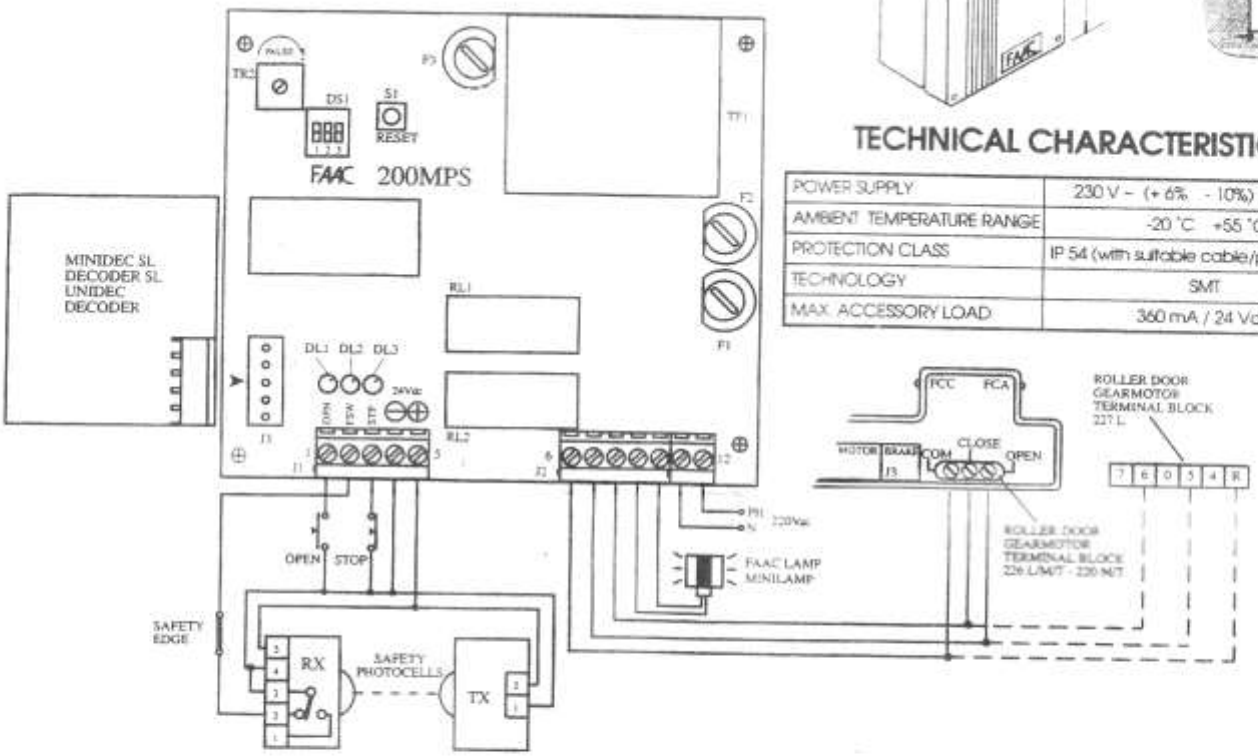
## PRELIMINARY WARNINGS

READ THE INSTRUCTIONS CAREFULLY and keep them for future reference.
Electrical installation and operating logic programming must be carried out in compliance with applicable standards. A 10A differential magneto-thermal switch with a 0.03 A threshold must be installed up-line of the control unit. Keep the power cables (power supply, motors) separate from control cables (pushbuttons, receiver, photocells). Always disconnect the electrical power supply before carrying out work of any description on the electronic control unit. FAAC SpA declines any responsibility for any damage arising from improper use of the control unit.

## ENCLOSURE FOR THE ELECTRONIC CONTROL UNIT 200MPS

The enclosure may be surface mounted on a wall by drilling fixing holes, or flush mounted in a recess.




## TECHNICAL CHARACTERISTICS

| | |
|---|---|
| POWER SUPPLY | 230 V ~ (+ 6% - 10%) 50 - 60 Hz |
| AMBIENT TEMPERATURE RANGE | -20 °C +55 °C |
| PROTECTION CLASS | IP 54 (with suitable cable/pipe sleeves) |
| TECHNOLOGY | SMT |
| MAX. ACCESSORY LOAD | 360 mA / 24 Vdc |

## LIST OF COMPONENTS

| | |
|---|---|
| F1 | F6.3A FUSE - MOTOR |
| F2 | T250mA FUSE - MAINS POWER |
| F3 | T500mA FUSE - ACCESSORIES |
| J1 | TERMINAL BLOCK - LOW VOLTAGE |
| J2 | TERMINAL BLOCK - POWER |
| J3 | DECODER CONNECTOR |
| TR2 | TRIMMER - PAUSE TIME ADJUSTMENT |

| | |
|---|---|
| TF1 | 220/9-22 Vac TRANSFORMER |
| S1 | RESET PUSHBUTTON |
| DS1 | PROGRAMMING DIPSWITCHES |
| DL1* | OPEN LED (OPENING/CLOSING) |
| DL2* | SAFETY CONTACTS LED |
| DL3* | STOP LED |
| RL1 | OPENING MOTOR RELAY |
| RL2 | CLOSING MOTOR RELAY |

*LED ON = contact closed
*LED OFF = contact open

## USE OF THE ELECTRONIC CONTROL UNIT 200 MPS

The **200 MPS** drives the **roller door gearmotors** models **FAAC 226 L/M/T, 220 M/T and 227 L**
It is compatible with all **FAAC** control and safety devices.

## ELECTRICAL CONNECTIONS

The electronic control unit **200 MPS** has two separate terminal blocks, one for low voltage (J1) and one for power connections (J2). **J1** is for the connection of the "open" and "stop" controls, photocell pair and safety edge. **J2** is for the connection of the roller door electric motor, the **FAAC LAMP/MINILAMP** and the 220 Vac mains power supply. If the **STOP** pushbutton and/or the **SAFETY DEVICES** are not to be installed, a jumper is to be connected across the relative inputs terminals and the negative terminal for the accessories, i.e., connect terminals **2 - 4** for the safety devices and **3 - 4** for the stop pushbutton.

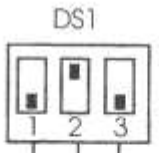
## CONTROL DEVICE OPERATION

**OPEN pushbutton**
Any **N.O.** control device which drives the roller door to open. In automatic and semi-automatic logics it drives both opening and closing movements.

**STOP pushbutton**
A **N.C.** control device which interrupts the current status (opening-pause-closing) until a subsequent impulse is sent.

**Safety devices (FSW and/or SAFETY EDGE)**
All **N.C.** devices (photocells, safety edges, magnetic loops) which when activated by the presence of an obstruction in the detection area interrupt the roller door movement, with or without starting the motor controlling movement in the opposite direction (see microswitch SW3).
**N.B.**: If the **safety devices** are engaged when the roller door is open they will inhibit the closing movement.

## PROGRAMMING LOGICS AND FUNCTIONS




The electronic control unit **200 MPS** can be programmed by means of the group of dipswitches **DS1**.
**N.B.**: press the **RESET** pushbutton after all programming operations.

| SW1 | PRE-FLASHING |
|---|---|
| ON | 5" PRE-FLASHING |
| OFF | NO PRE-FLASHING |

| SW2 | OPERATING LOGIC |
|---|---|
| ON | LOGIC A* |
| OFF | LOGIC EP |

| SW3 | SAFETY OPERATION |
|---|---|
| ON | RE-OPEN ON DISENGAGEMENT |
| OFF | RE-OPEN IMMEDIATELY |

* In automatic logic, the pause time can be set using trimmer **TR2** between **0** and **60** secs.
**N.B.**: the motor will be stopped automatically if the roller door does not operate the limit switches within a **60"** time limit.

## OPERATING LOGICS/PAUSE TIMES

**Logic A** (automatic)
On receiving an OPEN impulse the control unit executes a complete open - pause - close cycle. Any OPEN impulses sent during the opening movement will not be received. An OPEN impulse received during the pause, will reset the pause time and re-close the door. If pre-flashing is selected, the door will re-close after 5".

**Logic EP** (semi-automatic - step-by-step)
On receiving each OPEN impulse the control unit executes the following cycle: OPEN-STOP-CLOSE-STOP-OPEN, etc.. On operating the limit switch or after a STOP impulse, an OPEN impulse will move the door in the opposite direction to the previous movement.

**Pause time (Logic "A" only)**
The period of time between the end of an opening cycle and the start of a closing cycle.

**FAAC LAMP / MINILAMP pre-flashing**
The time period before the start of the closing movement.
If selected, the lamp will flash for **5"** prior to the closing movement.

## OPERATION IN DIFFERENT CONTROL LOGICS

| logic A DOOR STATUS | impulse OPEN | impulse STOP | contact SAFETY DEV. |
|---|---|---|---|
| **CLOSED** | OPENS | IGNORED | IGNORED |
| **OPEN** | CLOSES | STOPS OPERATION | STOPS OPERATION |
| **CLOSING** | INVERTS | STOPS OPERATION | see SW3 |
| **OPENING** | IGNORED | STOPS OPERATION | IGNORED |
| **IN STOP** | CLOSES | IGNORED | IGNORED |

| logic EP DOOR STATUS | impulse OPEN | impulse STOP | contact SAFETY DEV. |
|---|---|---|---|
| **CLOSED** | OPENS | IGNORED | IGNORED |
| **OPEN** | CLOSES | STOPS OPERATION | STOPS OPERATION |
| **CLOSING** | STOPS OPERATION | STOPS OPERATION | see SW3 |
| **OPENING** | STOPS OPERATION | STOPS OPERATION | IGNORED |
| **IN STOP** | OPENS/CLOSES | IGNORED | IGNORED |

## MAINTENANCE

The electronic control unit **200 MPS** does not require any maintenance. In case of malfunction, check fuses.