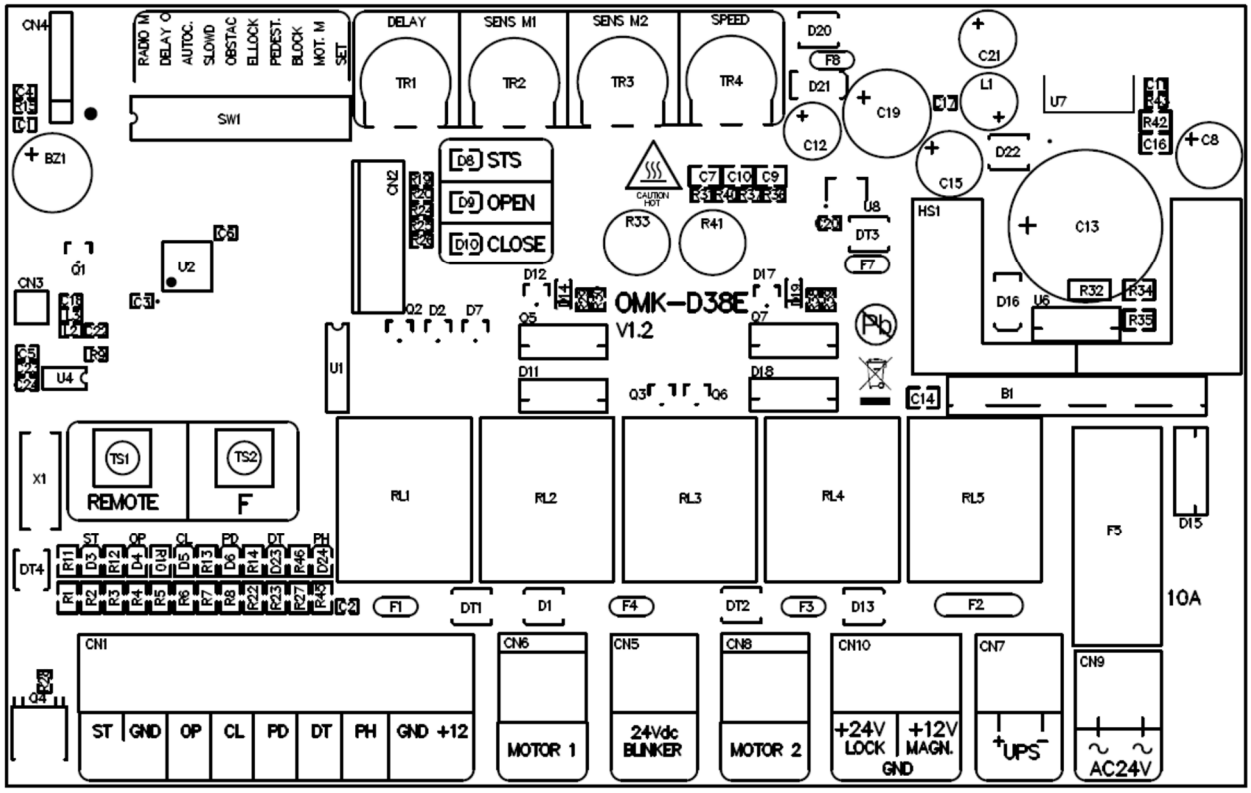
24Vdc Control unit
For 2 motors

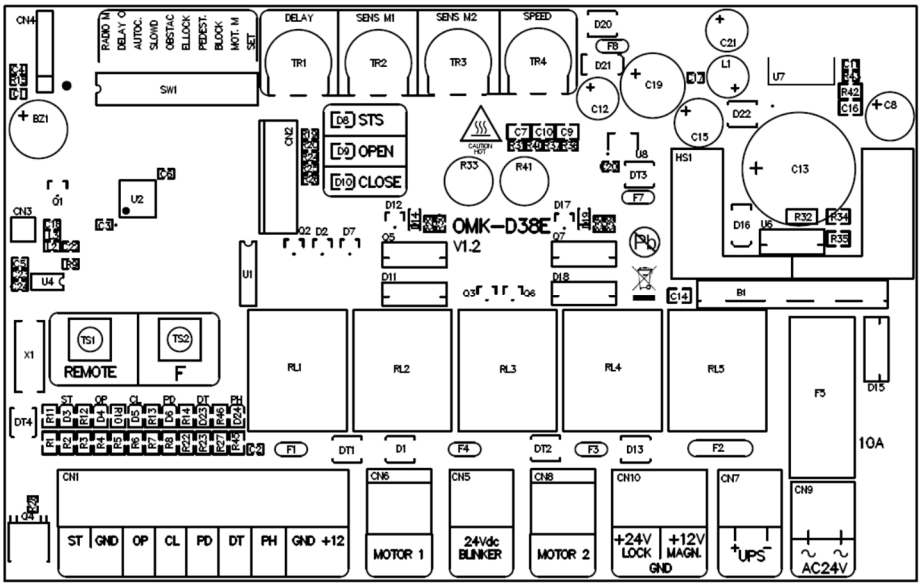
V-38,Rev:1.2

GB Control board Manual

Compatable for (fero series)


OMK-D38E
V1.2
DELAY
SENS M1
SENS M2
SPEED
TR1
TR2
TR3
TR4
SW1
RADIO M
DELAY O
AUTOC.
SLOWD
OBSTAC
ELLOCK
PEDEST.
BLOCK
MOT. M
SET
D8 STS
D9 OPEN
D10 CLOSE
REMOTE
F
TS1
TS2
RL1
RL2
RL3
RL4
RL5
F5
10A
CN1
ST
GND
OP
CL
PD
DT
PH
GND +12
CN6
MOTOR 1
CN5
24Vdc BLINKER
CN8
MOTOR 2
CN10
+24V LOCK
+12V MAGN.
GND
CN7
UPS
CN9
AC24V

Wiring Connections



1 ST	Start command (NO)
2 GND	Common
3 OP	Open command (NO)
4 CL	Close command (NO)
5 PD	Pedestrian command (NO)
6 DT	Detect command (NO)
7 PH	Photocell command (NO)
8 GND	Common
9 +12	Output 12Vdc 250mA
10-11 Motor1	Motor1 (Slave) output
12-13 Blinker	Blinker output 24Vdc
14-15 Motor2	Motor2 (Master) output. Use this motor in single gate mode.
16-18 Lock	Lock powe output for impulsive or magnetic lock + common.
19-20 UPS	UPS connection
21-22 AC24V	24Vac power supply input

Technical characteristics

Power Supply	24Vac
Max. Current out (+12V)	250mA
Max motor current	8A each motor
Max blinker current	1A
Operating temperature range	-10 +80°C

Status LEDs

The status Leds give some feedback about the state of the board

STS Led:

- Short Blink each 2 seconds: Stand by.
- Slow bliniking (1 times each second): Pause.

Open Led: Is on when at least one of the motor is opening.

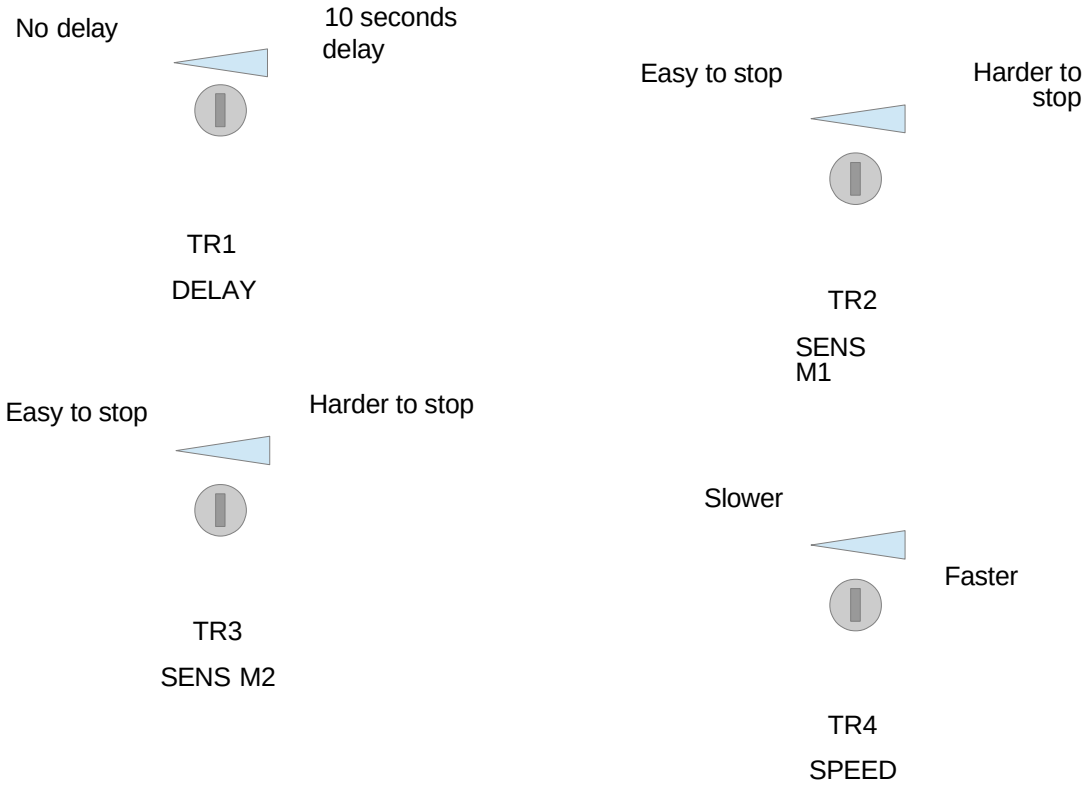
Close Led: Is on when at least one of the motor is closing.

Trimmer regulations

“DELAY” Closing delay regulation trimmer regulates the delay between M1 and M2 in closing, from 0 to 10 seconds. If delay is set to 0 (trimmer full unclockwise), the opening delay becomes 0 seconds too. Normally open delay is 2 seconds.

“SENS M1” - “SENS M2” Obstacle sensibility trimmers fine tunes the obstacle detection level for each separate motor. .

“SPEED” Slow down speed regulation trimmer regulates the speed during slow down phase. Always keep a speed fast enough to let the motor run also in cold weather conditions.



DIP switch settings

Dip	OFF	ON
1	Remote works in 4 keys mode	Remote works in single button mode
2	The 2 motors start opening together	The motor 1 opens 2 seconds in delay.
3	Step by Step mode	Autoclosing mode
4	Without Slowdown	Slowdown is active
5	Obstacle Detection is off	Obstacle Detection let the motor revert
6	Without output for electric lock	Out for lock, kickback stroke on opening, extra stroke in closing.
7	Lock button on remote opens single gate (Pedestrian function)	Lock button can't open single gate
8	Can't lock the gate	Lock + Stop buttons on remote can lock the gate
9	Wheels motor type	Pistons motor type
10	Normal operations	Set mode

Programming:

Learning a remote:

keep pushed *REMOTE* button till *STS* led goes on (about 3 sec), continue pushing STOP button on remote 2 times, *STS* led will go off and the buzzer will beep. The board total can lean 255 codes, If you learn 256 code, it will replace the 1st code .

Remove all codes:

To remove all codes in memory, keep pushed *REMOTE* button till buzzer long beep (about 8 seconds), .

Working time learning:

Attention: Put the gate fully closed.

Set the *DIP switch 10* on. If you want to use slowing down, set the *DIP switch 4* on too.

Give an open command with remote, the producedure for learning working time will start. The motors open and close one by one.

If *DIP switch 4,* give a stop command with remote where you want the slowingdown starts. If you don't push the stop command, an automatic time will be assigned.

If you connect just the motor 2, the board will automatically assign the single gate mode.

Once the gate is fully closed again, switch off the *DIP switch 10,* the working time will be memorized and the buzzer will beep to confirm.

Pause time learning:

Set the *DIP switch 10* on:

Push shortly *F* button so many times as the seconds of pause you want to set. Switch off the *DIP switch 10* to memorize the new pause time.

Switch electric lock mode:

The electric lock can work in 2 ways: Impulsive (on for 2 seconds when opening starts) or Magnetic (always on to hold the gate closed). By factory defalt the board is set in impulsive mode.

Set the *DIP switch 10* on:

Give a close command with a remote, the buzzer will do a long beep when the magnetic mode is set, while it'll do a short beep if the impulsive lock is set.

Get the software version:

To check the software version of the board, Set the *DIP switch 10* on and Give a stop command . Count how many times the *STS* led will flash slowly to get the software version.

Resets board to factory defaults:

Attention: resetting the board to factory defaults deletes all the settings of the board. This procedure don't delete remotes in memory.

Turn off the power. Set the *DIP switch 10* on and hold down *F* button, than give back power to the board. When the STS led will flash quicly, release the *F* button. The factory defaults had been restored.