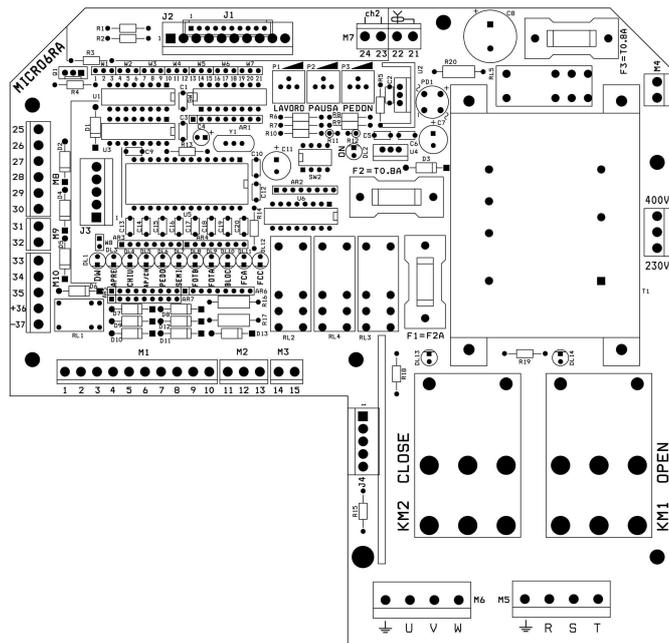


# Control Type Micro 6R Threephase 400V or Monophase 230V

For fast, rolling, sliding and Sectional door



## TRIMMER – FUSE – RELAY

**P1** WORKING TIME TRIMMER  
**P2** PAUSE TIME TRIMMER  
**P3** PEDESTRIAN TIME TRIMMER

**F1** = FUSE 5X20 F2A                      on 24Vac              protection : blinker supply 24Vac  
**F2** = FUSE 5X20 T0,8A                    on 18Vac              protection : electronic supply and exit 24Vdc.  
**F3** = FUSE 5X20 T0,8A                    on 230Vac             protection : blinker suppli 230Vac.

**RL1** LIGHT OF COURTESY RELAY (exit 24Vdc)  
**RL2** BLINKER RELAY OF 24Vac  
**RL3** OPEN RELAY  
**RL4** CLOSE RELAY  
**RL5** BLINKER RELAY 230Vac

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### DECLARATION OF CONFORMITY (according to ISO/IEC Guide 22 and EN 45014)

Manufacturer's Name :                    **ALLTRONIC s.n.c.**  
Manufacturer's Address :                **Via Torino. 84—12041 Bene Vagienna (Cn) Italy**

### DECLARES THAT THE FOLLOWING PRODUCT

Product Name :            **Central for Rapid/Rolling Door**  
Model :                      **Micro6R**

### CONFORMS TO THE FOLLOWING EMC SPECIFICATIONS BASED ON SAMPLE TESTING:

EN 55011	EN 60335-1
EN 55014-1	EN 60204-1
EN 55014-2	EN 12453
EN 61000-3-2	EN 61000-6-1
EN 61000-3-3	EN 61000-6-3 + A11

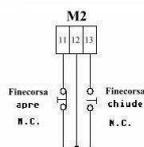
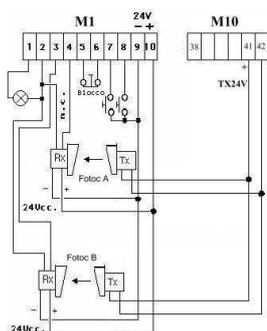
The product has been tested in the typical installation configuration and with peripherals which conform to EMC Directive.

I the undersigned declare that the product herewith complies with the protection requirements of the **EMC Directive 89/336/EEC**, the **73/23/CEE Low Tension Directive** and also the **Directive 89/392/CEE** (Electric Equipment Security of the Devices).

Bene Vagienna, 12/07/2017

Allodi Francesco  
*Francesco Allodi*  
Proprietario

# TERMINAL BLOCKS



## 10 POLE TERMINAL BLOCK (M1):

- 01-02 = Light of Courtesy Exit of 24Vdc. 3W max.
- 02-03 = N.C. contact enter photocell Low
- 02-04 = N.C. contact enter photocell High
- 05-06 = N.C. block enter (electronic block)
- 07-09 = N.O. button enter of OPEN
- 08-09 = N.O. button enter of CLOSE
- 09-10 = Exit 24Vdc. 500mA max. (10 = + 24V)

## 3 POLE TERMINAL BLOCK (M2):

- 11-12 = N.C. End-run enter of OPEN (12 = common) - STOP OPEN
- 12-13 = N.C. End-run enter of CLOSE (12 = common) - STOP CLOSE

## 2 POLE TERMINAL BLOCK (M3): 14-15 = Blinker exit of 24Vac. max. 25W

## 2 POLE TERMINAL BLOCK (M4): 19-20 = Exit Blinker 230Vac. max. 30W

## 4 POLE TERMINAL BLOCK (M5): R-S-T = Input 400Vac or R-S = Input 230Vac

⊥ = Input EARTH

## 4 POLE TERMINAL BLOCK (M6): U-V-W = Output 400Vac (or 230Vac - V=Commun)

⊥ = Output EARTH

## 4 POLE TERMINAL BLOCK (M7): 21-22 = Input Arial RX Radio (22 = Hold)

23-24 = Exit from RX Radio Channel 2

## 6 POLE TERM. BLOCK (M8): 25-26 = Input N.C. Contact MUSHROOM

27-28 = N.O. button enter of OPEN

28-29 = N.O. button enter of CLOSE

28-30 = N.O. button enter of PEDESTRIAN

**ExitCommand  
For Front Panel**

## 2 POLE TERMINAL BLOCK (M9): 31-32 = N.C. = semi-automatic - N.O.= automatic

## 5 POLE TERMINAL BLOCK (M10): 33-34 = LUC = Contact enter N.O. to disable the low photocell and the DW in the last centimetres of closing (when N.C. disable).

34-35 = AP/CH = N.O. Buttom enter of OPEN/CLOSE **Dynamic**  
 With SW1 - Dip 4 at ON : Dynamic = at every impulse : Open – Block – Close – Open etc.)  
 With SW1 - Dip 4 at OFF: Dynamic = Open - Close (on end-run)

36-37 = TX24V = Supply Exit 24Vdc for photocells (for autotest)

**Only photocells transmitter**

+24Vdc. high  
0V (-) low

## 3 POLE TERMINAL BLOCK (M11): If shunt on 16-17 = Input at 230V (Monophase or Treephase)

If shunt on 17-18 = Input at 400Vac. (set of factor)





## Regulatin Times (Dip Swich SW2)

### WORKING TIME:

Dip 1 OFF Dip 2 OFF	min. <b>27</b> sec.	MAX <b>50</b> sec.	
Dip 1 OFF Dip 2 ON	min. <b>80</b> sec.	MAX <b>150</b> sec.	
Dip 1 ON Dip 2 OFF	min. <b>04</b> sec.	MAX <b>30</b> sec.	(set of factor)
Dip 1 ON Dip 2 ON	min. <b>04</b> sec.	MAX <b>150</b> sec.	

### PAUSE TIME:

min **01** sec.                      MAX **70** sec.      (set of factor)

With R11 shunt the max time is 200 sec.

### PEDESTRIAN TIME:

min. **02** sec.                      MAX **13** sec.

### REVERSAL TIME:

Dip 3 OFF Dip 4 OFF	reversal time = <b>0,5</b> sec.	
Dip 3 OFF Dip 4 ON	reversal time = <b>1</b> sec. (set of factor)	
Dip 3 ON Dip 4 OFF	reversal time = <b>2</b> sec.	
Dip 3 ON Dip 4 ON	reversal time = <b>4</b> sec.	

## SHUNTS SET

W3 - W4 – W5 – W6 – W7 = For predisposition type of Rx Radio (on costumer request)

W8 Shunted: DW control not connected

Free: DW control connected (insert DW24 in J3 position)

W1 Shunted 1-2 (central – left) CH2 of receiver	FOR <u>PEDESTRIAN ORDER</u>
Shunted 2-3 (central – right) CH2 of receiver	FOR <u>CLOSE ORDER</u>
W2 Shunted 4-5 (central – left) CH1 of receiver	FOR <u>DYNAMIC ORDER</u>
Shunted 5-6 (central – right) CH1 of receiver	FOR <u>OPEN ORDER</u>

## **LEDS VISUALIZATION**

<b>DL1 (yellow led)</b>	LIGHT (On) : DW24B in warning (contact Open)
<b>DL2 (green led)</b>	SWITCHED ON : power supply insert SWITCHED OFF : lack of supply
<b>DL3 (red led)</b>	SWITCHED ON : pressed OPEN order It remains lighted only during the time while it is pressed
<b>DL4 (red led)</b>	SWITCHED ON : presses CLOSE order It remains lighted only during the time while it is pressed
<b>DL5 (red led)</b>	SWITCHED ON : pressed AP/CH order (Dynamic)
<b>DL6 (red led)</b>	SWITCHED ON : pressed PEDESTRIAN order
<b>DL7 (yellow led)</b>	SWITCHED ON : semi automatic cycle activated SWITCHED OFF : automatic cycle activated
<b>DL8 (yellow led)</b>	SWITCHED ON : present LOW PHOTOCELL (Open contact)
<b>DL9 (yellow led)</b>	SWITCHED ON : present HIGH PHOTOCELL (Open contact)
<b>DL10 (yellow led)</b>	SWITCHED ON : present button of BLOCK (Open contact)
<b>DL11 (red led)</b>	SWITCHED ON : present END-RUN OF OPEN (Open contact)
<b>DL12 (red led)</b>	SWITCHED ON : present END-RUN OF CLOSE (Open contact)

### **Functionnement**

**Automatic Cycle:** Pressing N.O. button of Open the motor will begin to move for the time determined by the “End-run/working time” combination (P1).

The control works with normally closed End-run (N.C.).

With the gate opened the pause timer (It can be bypassed pressing the button of close) , after the determined time (P2), will close the door. If during the pause time an object or a person crosses the photocell, it resets the the pause time which will start again from the beginning. We get same function, always during the pause time, giving an opening impulse.

The contact of **Low and Hight Photocell** (N.C.) is activated only during the reclosing phase, it opens again the door if there is an obstacle.

A possible temporary Block of the control can be obtained by acting on the block button (N.C.), in this case the motor will stop until the open-close button will be pressed again giving movement to the gate in the desired direction.

**Pedestrian Function** : N.A. enter contact which operates the opening door for the time determined by the P3 trimmer.

During the reclosing phase the photocell or an impulse of Open will open the door completely.

**Semiautomatic Cycle** (pass-pass):

All the functions are the same of the automatic cycle except the pause time that is not inserted, therefore to reclose you should press the close button once again.

## WARNING

- The motor time of start is instantaneous when the door is on the end-run, the movement reversal time of the door out of the end-run (and also of starting) is regulated by the Dip-switch "SW2".

Inserting the photocell contact (N.C.) in this control, control the the right fonctionnement otherwise the control will not close or will always be on block (Autotest).

**Always check the signalling leds before of every intervention.**

On this control it is possible to insert (SW1 dip 2) the function anti-dragging : with close end-run opened and the low and/or Hihgt photocell obscured, an impulse of open does not give movement.

In case of damage of the photocells it is possible to make the control working only with "Pressed Button" (SW1 dip 3) for opening and closing movement.

### First intervention on Control drawbacks

Problem	Likely Cause	Solution
Control does not move, switched off leds	Wrong connection line 18V, check Fuse F5.	Insert supply like in the scheme
Control does not move, switched off leds	Short-circuit on output 24Vdc. Check F5.	Disconnect the controls supplied from the gate-opener and check wires.
Control doesn't move, DL10 led light	Block contact opened	Check that the block is N.C.
Control doesn't close, DL8-9 led light	photocell enter opened	Check that the enters are N.C.
Control goes on with opening or don't close in automatic	Open button always pressed (led DL3 or DL5 or DL6 lighted)	Check all the enters (buttons, Rx radio, magnetic spool)
Control opens a little and then stops	Safety profile, block, end-run	Check that there are not false contacts
Control opens but does not reclose	Semiautomatic function insert	Select function (DL7)
Control does not feel end-run of open and close	Wrong connection of the end-run	Connect in the right way
Control gives movement only in one directon	Wrong connection of the Common wire of the end-run	Connect in the right way
Control reverse with low photocell when the motor opens	Wrong connection of the motor (reverse 2 phases)	Connect in the right way
The motor does not open the door completely	"Working" time too short	Increase the "Time of working" trimmer (P1)
Control close at once	"Pause" time short	Increase the "Time of pause" trimmer (P2)
Control reverse the movement brusquely	"Reversal" time short	Set the "Reversal Time" (SW2)
Photocell stops on Open	P.L. function inserted	Check Dip 1 (OFF)
Control does not open	Failed of the hight or low photocell autotest	Check the photocells
Control does not open	Anti-dragging acrivated (SW1 Dip 2)	Check the photocells
Times too long	Time Regulations SW1	Set in the right way

**The Alltronic s.n.c. will not be responsable for wrong connections and/or mishandlings of the control which will not be considered under guarantee.**

## Installation Advices

- 1) The control should be installed as near the gate as possible.
- 2) If this is not possible, you should:  
Use cables with proper sizes.  
Never use a multiwire cable to connect either the motor or all the services (open, close, block, photocell, end-run), but ALWAYS SEPARATE THE POWER from the Low Tension (controls and securities) using more cables.  
In case of threephase 400V supply it is necessary to place the control near the gate in order to have the shortest way of the power wires , always separating the low from the very low tension.  
If it is not possible, so it is necessary to use screened cables, remembering to earth the cable screen at the two ends.
- 3) After every installation check, with a tester Vac., that there isn't any induction tension on the enters, measuring between the earth and one end of the "Open button" terminal block. If there is an "Alternating tension" below 20—30 V (induced tension for cable passage with supply) the system is ready to be tested, otherwise it is necessary to overhaul the cable arrangement as described above.

## Max Loads and Maintenance

The relays set on the control have a load of 9 Amp. And they must be, relating to their load, periodically checked.

It is advisable to overhaul the relay contacts every 4 years, but always according to the following conditions:

Micro 6R control 400V threephase supply

Max. load permitted : 2,2kW

Threephase motor  $\cos\phi = 0,7$

N° of possible movement: 500.000

Micro 6R control 230V threephase or monophase supply

Max. load permitted : 1,5kW

Threephase motor  $\cos\phi = 0,7$

N° of possible movement: 500.000

**WARNING:** Reducing the motor  $\cos\phi$  the n° of possible openings decreases (ex. with  $\cos\phi = 0,3$  the number of movement is halved).

### Check always the values of the installed motors

**WARNING :** The above specifications are adressed to technicians and/or qualified staff.  
All checks and works should be made OUTSIDE the electric and electronic details of the controls.  
Never forget that installations should be made according to law requirements and "Rules of good installation".

**It is advisable to protect the control, at least on the upper side, if it could be subject to inclement weather.**

The ALLTRONIC snc states that the control has been registred.

Therefore the central will be protected in all its parts by the law.

It is forbidden to riproduce any part of this manual without written authorisation of the Alltronic