

# Digi-Code<sup>®</sup>

## AUTOMATIC

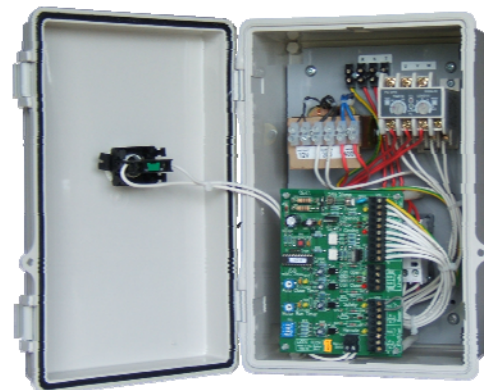
### CONTROLLER RR-3 v.2



Complete stand alone, multi-mode Automatic Controller, Single or 3 phase, with UP-DOWN contactors and Overload relay.  
With inputs for Radio Remote Receiver and/or safety beam.

- Toggle, Auto Close or Security Close functions.
- Available as kit comprising Controller, receiver and one remote, or separately.
- Enables low cost remote control of door.

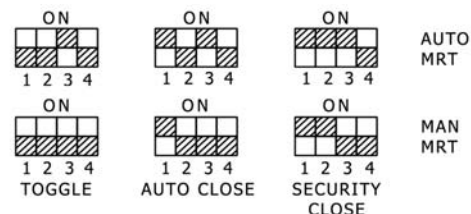
Fitting of safety beam, to prevent door closing on obstruction is recommended.



Type	Max Rating	Diagram
3 phase	2.2kW	1095
1 phase	0.75kW	1096

## OPERATION

Controller is configured to desired function, (Toggle, Auto Close or Security Close), by setting Dip Switch on PCB.  
Switch 3 sets MRT mode. ON = AUTO, OFF = MAN



**TOGGLE** DS 1 OFF DS2 OFF (similar to domestic garage operator, with radio remotes)

Door opens on impulse, and stops on UP limit switch.  
Next impulse closes door, which stops on DOWN limit.  
If impulse received while door is opening, before reaching UP limit switch, it will stop, until a further impulse is received, which will close door.  
If impulse received while door is closing, before reaching DOWN limit switch, it will pause, and open fully.  
If beam broken during closing, door will pause, and open fully.



**AUTO CLOSE** DS 1 ON, DS 2 OFF

Door opens on impulse, closes after set time delay 3-60 seconds.  
Timer starts when UP limit switch operates, i.e. door fully open.  
If beam broken during closing, door will stop, and open fully.  
If input contact is maintained, door will open and remain open, until input contact is opened.



**SECURITY CLOSE** DS 1 ON, DS 2 ON

Door opens on impulse, closes 1.5 seconds after vehicle passes safety beam, even if not fully open.  
If door is opened and no vehicle passes beam, then Auto Close will close door.  
If input contact is maintained, door will open and remain open, until input contact is opened.

**Warning:** Security Close may not be suitable if vehicles towing trailer are employed!

## COMMON FEATURES

On power up, door will default to DOWN, unless beam broken.

Door is operated by impulse from input contact, and is stopped by limit switch, at UP or DOWN position.

Controller is fitted with reversal timers, to ensure a small delay, (1.5 second) before reversing, in case door is reversed, before reaching limit. (This is to prevent mechanical damage to gearbox or chain)

Max Run Timer is provided to stop door if limit switch does not operate

On operation of Max Run timer, door shuts down, next impulse will start door again.

Pre-wired terminals for mains, motor, limit switches, Radio Receiver, P/E beam etc.

All remotes are 24V AC, enabling adjustment of limit switch, photoelectric beam unit etc by non-electrical staff.



## CONNECTIONS

Connect supply, motor, limits and accessories as diagram.

Check motor rotation before operating door – to reverse rotation refer to wiring diagram.

## SETTINGS

**Receiver:** mount and connect receiver and program your security code as per instructions.

**Safety Beam:** mount, connect and align as instructions. Contact must be closed when beam is intact, i.e. open when beam is broken.

*It is important to mount the receiver on the side most sheltered from the setting sun.*

**Auto Close Timer:** set with Potentiometer on the Printed Circuit Board. LED will light when timer operates.

**Max Run Timer:** set mode to AUTO or MANUAL on Dip Switch 3, ON = AUTO, OFF = MANUAL

In AUTO mode run time of door is recorded on each complete cycle, and if this time is exceeded by 5 seconds door will shut down.

In MANUAL mode, set timer to trip after desired over-run time, say 2 seconds.

For quick simple install, use auto MRT - for precise motor time, set with timer in manual MRT mode

The MRT LED will be illuminated while the motor run timer is running. If the limit does not get hit when the timer is running the MRT will flash (error shutdown). If the motor hits the limit the LED will turn off (later) when the MRT time expires. This extra time is the margin you have between the door travel time and the MRT time.

**Overload:** set to motor current.

MAX RUN<sub>(MAN ONLY)</sub>



AUTO CLOSE



*Please ask for detailed specifications and prices.*

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