

AL-2 AUTO LOGIC CONTROLLER

LEES TECH
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Complete Stand Alone, Full Featured, Multi-Mode Automatic Door Controller. Fully enabled for integration with Security or Building Management Systems

- Recommended for use in Carparks, Hospitals, Schools, Fire and Police stations, Courts, Prisons, Apartment and Office buildings and any site where logic control and interface with security or building management system is required
- Inputs for Receiver, key switch, safety beams, loop detector, keypad and card reader
- The AL2 Auto Logic Controller is FUTURE PROOF designed with the ability to add functions at a later date as requirements change
- System capable for access controls and security devices
- Housed in IP65 plastic enclosure with pad-lockable isolating switch, contactors, electronic overload relay, and multi-mode logic board with mode switch and adjustable timer (Auto Close)
- Toggle (remote control), Auto Close or Security Close Mode Functions
- Fitting of Safety Beams to prevent the door closing on obstruction is recommended
- Available in **Single** or **3 Phase**
- **Motor Run Timer (MRT)** is provided to stop door if the limit switch does not operate. On operation of the MRT the door will shut down and the next impulse will operate the door again. MRT has screwdriver adjustment – no programming required
- Digital Counter
- A timer can be added to open and close the door at pre-set times and days



TYPE	MAX RATING	WIRING DIAGRAM
1 phase	0.75kW	1069
3 phase	2.2kW	1068

OPERATION

The AL-2 can be configured to three different mode functions, either on installation or at a later stage. Modes are Toggle (remote control), Auto Close and Security Close. The mode can be easily changed after installation by screwdriver adjustment of the dip switch on the PCB.

TOGGLE (similar to a domestic garage operator with radio remotes)

The door will open on impulse and stop on reaching the UP limit.

Next impulse will close the door and stop on reaching the DOWN limit.

If impulse is received while the door is opening (before reaching UP limit) the door will stop until a further impulse is received which will close the door.

If impulse is received while the door is closing (before reaching DOWN limit) the door will pause and then open fully.

If the safety beam is broken while the door is closing, the door will pause and then open fully.

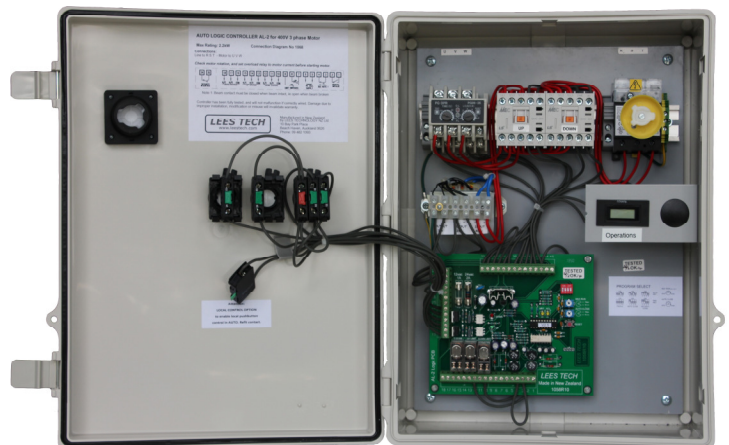
AUTO CLOSE

The door will open on impulse and then close after a set time delay (3-60 seconds).

Timer will start when the UP limit operates, i.e. door is fully open.

If the safety beam is broken while the door is closing the door will pause and then open fully.

If input contact is maintained the door will open and remain open until input contact is opened.



SECURITY CLOSE (stops tailgating and improves security)

The door will open on impulse and then close 1.5 seconds after a vehicle passes the safety beams even if the door is not completely open.

If the door is opened and no vehicle passes the safety beams, *Auto Close* will close the door.

If input contact is maintained the door will open and remain open until input contact is opened.

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

FEATURES

- On initial power up or restore the door will default to DOWN unless the beam is broken
- The Door is operated by impulse from the input contact and is stopped by the limit switch at UP or DOWN position
- Door can be opened and closed from a "Building Management System" during business hours and after hours/weekends/holidays with Access Control Equipment (card reader, keypad, key switch, etc.)
- For Auto Close and Security Close functions a maintained contact on terminals 1 & 2 (instead of impulse) will open the door and it will remain open until terminals opened when the door will close
- Controller is fitted with reversal timers to ensure a small delay (1.5 seconds) before reversing in case door is reversed before reaching the limit. This is to prevent mechanical damage to gearbox or chain
- **MANUAL MODE** – for service, setting limits or emergency operation. With the **AUTO/MANUAL** key switch in the **MANUAL** position the door will open and close under control of the UP and DOWN pushbuttons. When the switch is moved to **AUTO** position the door will close
- **AUTO MODE** – With the **AUTO/MANUAL** key switch in the **AUTO** position the UP button can be used to open and close the door from the AL-2
- Electronic overload relay – adjustable from 0.5A to 6.5A
- Terminals are provided to allow the door to be disabled when the security system is armed
- Contacts to provide remote status indication are provided. Beam Status terminals are also provided
- Pre-wired terminals for mains, motor, limit switches, radio receiver, safety beams etc are provided
- Remotes and accessory connections are Extra Low Voltage 24VAC

OPTIONAL EXTRAS

MODEL	DESCRIPTION
SB-3	Safety Beam set
LRX-1E	Radio Remote Receiver
LTX-1	1 Button Transmitter with Keychain
LTX-2	2 Button Transmitter with Keychain
LTX-1V	1 Button Transmitter with Visor
LTX-2V	2 Button Transmitter with Visor
LTX-3V	3 Button Transmitter with Visor
LRX-C5	Coax Antenna Kit
DSP-7	Plug and Play Loop Detector
DSP-10	Universal Loop Detector
W3-A	Hard Wired Keypad/Reader
LKP-1	Wireless Keypad
N1K	Battery backup UPS for 230V single phase 0.37kW motor
N2K	Battery backup UPS for 230V single phase 0.75kW motor
N3K	Battery backup UPS for 230V single phase 1.1kW motor
KS-HDF	Flush mount Key Switch
KS-HD	Heavy Duty Enclosed Key Switch
KS-LD	Light Duty Enclosed Key Switch

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Digi-Code

