

# AL-FS AUTOMATIC CONTROLLER

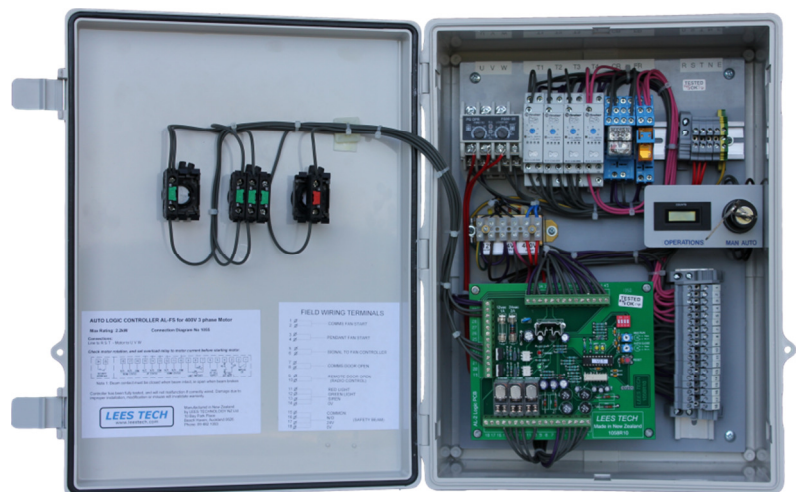


**Auto Logic Controller purpose designed for use in Fire, Ambulance and Police Stations, and NZ Corrections Dept**



- The AL-FS Auto Logic Controller is **FUTURE PROOF** designed with the ability to add functions at a later stage as requirements change
- Fully enabled for integration with Security or Building Management Systems if required and system capable for access controls and security devices
- Inputs for Receiver, safety beams, loop detector, keypad, swipe or a prox card
- Housed in an IP65 plastic enclosure and comprising of UP/DOWN contactors, electronic overload relay, 12-24V power supply, multi-mode logic board with mode switch, digital counter and adjustable timer
- Fitting of safety beams is highly recommended to prevent door closing on obstruction
- Available in **Single** or **3 Phase**
- Also available with integral VSD for single phase supply and three phase motor providing soft start/stop and variable speed control
- Separate control pendant available with UP/DOWN and STOP push buttons for mounting in areas with limited space
- Delay close for up to 24 hours
- Door can be stopped during open or close by the STOP pushbutton
- Fan pendant available for manual fan operation
- Pad-lockable isolating switch – mounted on controller or separately
- Auto/Manual key switch
- Digital counter
- Extra inputs for Security and Building Management Systems
- 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	1154
3 phase	2.2kW	1155
VSD	2.2kW	



# OPERATION

Factory preset in Toggle mode:

**TOGGLE** (similar to a domestic garage operator with remote control)

Door opens on impulse and will stop on UP limit

Timer starts when the UP limit operates, i.e. door is fully open and then closes after a set time delay of 1 min to 24 hrs

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 closing the door will pause and then open fully

# 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, key pad, key switch, prox card 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 switch, 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
LD-1	DSP-7 Plug and Play Loop Detector
DSP-10	DSP-10 Universal Loop Detector
W3-A	Weather Resistant Keypad/Reader/Controller
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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