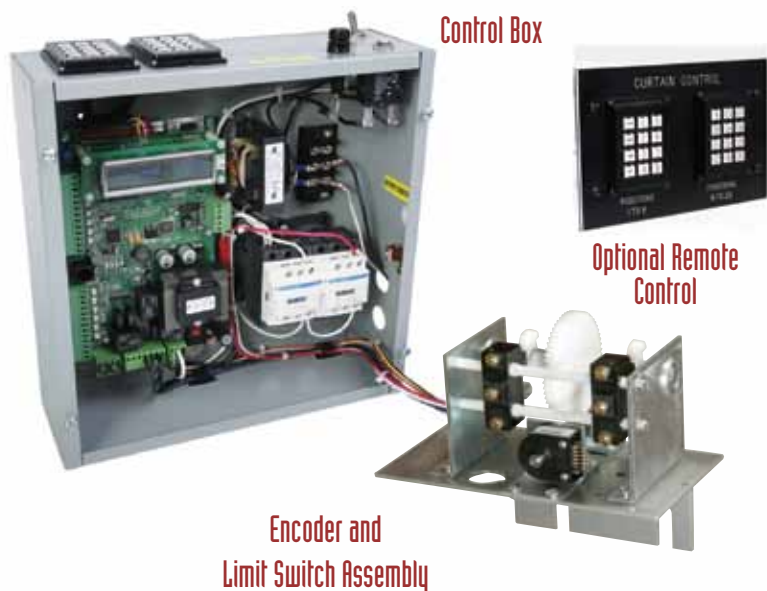


Model LS-1 LogiStop® Multiple-Stop Limit Switch



	Model No.
	LS-1 LogiStop®
Input Power Source	120/220 Vac
Control Voltage	24 Vdc
Remote Input Type	Normally open momentary operation
Output Relay Rating	2 A at 250 Vac
Maximum Number of Stops	20
Minimum Number of Stops	2
Number of Allowable Remotes	Unlimited
Maximum Encoder RPM	40*
Mechanical Limit Switch Rating	20 A at 125 Vac

* Precision of the LogiStop® is affected by the speed of the machines as well as the diameter of the machine's final output device, such as a grooved drum or wheel. The larger the diameter of these devices, the less accurate the stop positioning will be.

DMX512 Compatible

The Model LS-1 LogiStop® is a programmable multiple stop limit switch that can provide 2 to 20 preset stops on virtually any type of rotating machinery. The LogiStop's® optical encoder is provided as part of a complete rotary limit assembly which also includes two mechanical limit switches to serve as over-travel sensors. The LogiStop® control component is provided in a NEMA 1 control box which includes an LCD display for monitoring instruction steps, factory numbered keypads to program the unit, a power-lost LED indicator, and fuse protection for the control circuit.

Programming a limit stop involves simply jogging the machine to the desired location, pushing the "ENTR" key and then pushing the key number you want to assign to this position.

The next time you need multiple-stops to meet project specifications, consider using the Model LS-1 LogiStop®.

OUTSTANDING FEATURES:

ELECTRONIC ERASABLE MEMORY

Maintains all limit and coast value settings even in the event of a power failure.

POWER LOSS PROTECTION

In the event of a loss of electrical power, the LogiStop® will enter into a fault state that will not allow the machine to operate from either the remote controls or the local keypads until the unit is reset. If power is lost, once it is restored, the red power loss LED located on the control box will illuminate signaling a loss of power has occurred. Once the mechanical system has been checked for manual movement during power loss, or for obstacles that may have been placed in its path, the unit can be reset by depressing the "STOP" and "ENTR" keys simultaneously.

OPTICAL ENCODER

Positioning is provided by a non-contact optical rotary encoder furnished as part of the complete limit switch assembly. The limit switch assembly also incorporates two mechanical limits which serve as over-travel sensors that are wired directly to the machine contactor coils, frequency drive inputs or other direct output devices which can bypass all LogiStop® instructions and shut the machine off directly.

OPTICALLY ISOLATED INPUTS

The input terminals, where remote control connections are made, are optically isolated from the board logic and are designed to allow for long wire runs to the remote control station(s).

RELAY OUTPUTS

Outputs of the LogiStop® are 3 each Form C relays; 1 for the "Open" direction, 1 for the "Closed" direction, and 1 to engage a motor friction brake at the end of travel.

PROGRAMMABLE COAST

Each direction of the unit can be programmed to allow for mechanical coast which may occur in lift systems or very heavy traverse systems. The coast of each direction is addressable individually to allow for the potential of greater drift in one direction than the other.

REMOTE CONTROL PROGRAMMING

During normal operation the LogiStop® cannot be reprogrammed from any remote control station. A password must be entered in order to allow a 15 minute window for reprogramming from a remote control station.

ELECTRO-MECHANICAL LIMIT SWITCHES

Multiple stop limit controls are also available in electro-mechanical configurations which use relay logic and mechanical limit switches in place of electronic components. A maximum of 4 intermediate stops are available in this configuration.