



ES505 Multifunction Module Overview

Electronic Solutions Inc.

The Electronic Solutions ES505 is a versatile microprocessor-controlled delay module which may be used for a variety of door applications. Designed for cost sensitive applications, the ES505 has two basic functions:

Function 1 is a programmable time delay. The delay may be adjusted from 1-30 seconds in 1 second intervals. Delays of 45 and 60 seconds are also available. Extended delays of 1-30, 45, and 60 minutes may also be chosen. The timing accuracy for all delays is typically $\pm 1\%$.

Function 2 is a latch or "ratchet" relay. Repeated triggering of the activating signal will activate/deactivate the output relay. When Function 2 is used, the ES505 may be programmed to wait indefinitely for another actuating signal before releasing the relay, or to "time out" the latch request and release the relay automatically after a specified time interval of 1-30, 45, or 60 minutes.

The ES505 output is a single pole double throw (SPDT) dry contact rated for 3A maximum at 28VDC.

The input burden is 24VDC nominal at 10 milliamperes maximum. An indicator on the ES505 module offers visual confirmation that the module is being activated by the external switch. By cutting out a jumper on the circuit board, the module will also accept a voltage from 12-24 volts AC or DC to trigger it. The controlling voltage is optoisolated. This option is frequently used with security systems and offers the advantage of totally isolating the controlling signal from the door package without the need for an external relay.

The power requirement for the ES530 is 16-24 volts AC or 24-30 volts DC at 75 milliamperes maximum. An eight position DIP switch sets the time delay and operating modes. An indicator is included which shows the module's status during operation. High quality clamping type terminal blocks are used. Module size is approximately 2.75" x 2.75", allowing convenient installation inside the door header.

With custom software, this module is also suited to specialized timing applications. Please contact ESI with your specific requirements.