



# Switch Input Module

## STYLE

The ES-Key 18 digital, 3 output, with 1 analog input module is a Class 1 ES-Key network module designed for use in a ES-Key™ electrical system network.

## Features

The ES-Key 18 digital, 3 output, with 1 analog input module is a Class 1 ES-Key network module designed for use in a ES-Key™ electrical system network. This module has eighteen (18) configurable polarity inputs (positive or ground), three configurable outputs (positive or ground) , and one (1) analog input (0-5 volt or 4-20mA). The inputs are reported to the ES-Key network via J1939 CAN messages and can be tied to desired functionality through the ES-Key database by using the ES-Key professional software.

## Applications/Solutions

- Emergency Responder OEMs
- Engineered Solutions
- Fire OEMs
- Firefighting - Airport (ARFF)
- Firefighting - Industrial
- Firefighting - Structural
- Firefighting - Wildland Forestry
- Rescue - EMS
- Specialty Vehicles
- 18 digital inputs (polarity selectable)
- 3 digital outputs (polarity selectable)
- 1 analog input (configurable for 0-5 volts or 4-20mA)



## Specifications

Country of Manufacture	US
Width	4.680" (118.80 mm)
Height	5.240" (133.10 mm)
Depth	1.420" (36.07 mm)
Volts	+9 VDC ... +32 VDC
Amperage	62 mA (13.8 VDC) / 83 mA (27.6 VDC)
Can Specification	SAE J1939 proprietary, 250 Kbits/second
Enviromental Range	IP 67

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### Output current capability

- 250mA per output

### Input current draw

- 2mA per input (positive or ground polarity)

### Temperature range

- -40°C...+85°C

### Electrical protection

- Internal thermal fuse
- Reverse voltage protection
- CAN buses protected to 24V
- ESD voltage protected to SAE J1113 specification for heavy duty trucks (24V)
- Transient voltage protected to SAE J1113 specification for heavy duty trucks (24V)
- Load dump voltage protected to SAE J1113 specification for heavy duty trucks (24V)
- Outputs protected for short circuit and thermal overload