# 3.1 General Specifications

**Table 3-1: 1460 I/O Expansion Module General Specifications**

| SPECIFICATION | | DESCRIPTION |
|---|---|---|
| Compatibility | | In-Sight 3400 and In-Sight 5000 Series Vision Sensors |
| I/O | Trigger | 1 opto-isolated, acquisition trigger input |
| | Inputs | 8 opto-isolated discrete (general-purpose) |
| | Outputs | 10 opto-isolated discrete (2 high-speed, 8 general-purpose)<br>General purpose Outputs – Maximum 60VDC, 2 Amps resistive, derated at -33mA/C for surrounding air temperatures above 25°C |
| Communications | Serial | 1 RS-232C port (1200 to 115,200 baud rates)<br>RxD, TxD, and Flow control (RTS/CTS) |
| Status LEDs | | 1 each for power, external lights, acquisition trigger, inputs and outputs<br>1 each for Camera and Remote RS-232 |
| Mechanical | Housing | Black plastic |
| | Mounting | #3 DIN-rail (35mm) |
| | Dimensions | Width: 269.2mm (10.6"), Depth: 125.4mm (4.94"), Height: 63.5mm (2.5") |
| | Terminal Block | 26 to 16 AWG<br>Maximum torque 0.3 Nm (2.7 in-lb.) |
| | Weight | 737.1 g (26 oz.) Opto-isolators and fuses installed, w/o retention bar. |
| Power | Camera | 24VDC ±10%, 1.25 Amps, 30W supply[1] |
| | Light Input | 12VDC to 24VDC |
| | Light Output | 12VDC to 24VDC |
| Environmental | Temperature | 0°C to 50°C (operating), -10°C to 65°C (storage) |
| | Humidity | 10 to 90%, non-condensing (Operating and Storage) |
| | Shock | 30Gs per IEC 68-2-27 (Pending) |
| | Vibration | 2Gs per IEC 68-2-6 (Pending) |
| Certifications | | CE, UL, FCC |

1. Maximum draw when the 1460 I/O Expansion Module supplies power to an In-Sight sensor, and when all inputs, outputs, and LED indicators are in use. Draw will be less than 30W under typical usage.

# 3.2 Acquisition Trigger Input

The 1460 I/O Expansion Module provides access to the supported vision sensor's high-speed, opto-isolated acquisition trigger input. Unlike the general-purpose inputs, the acquisition trigger input is wired directly to the CCD imager circuitry, thus bypassing the sensor's operating system. The 1460 I/O Expansion Module's micro controller also monitors the acquisition trigger input (Figure 3-1).

## 3.6 Dimensions

All dimensions in millimeters (inches).

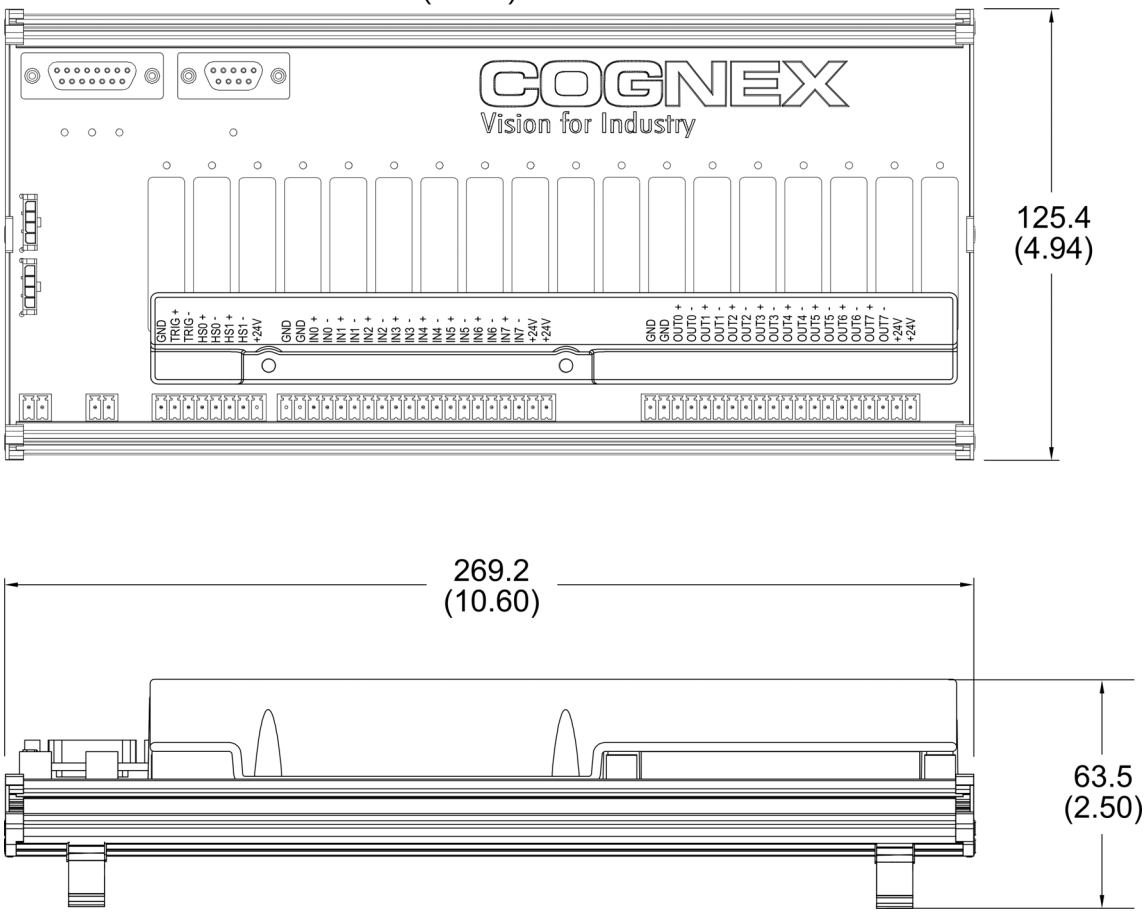


**Figure 3-7: 1460 I/O Expansion Module Dimensions**