

# HSQ-6050

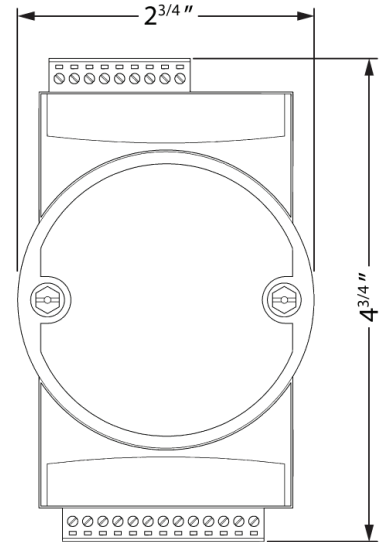
## Isolated 18-Channel Digital Input/Output Module



## Technical Summary

### Key Features

- ◇ I/O Type: Twelve Digital Input, Six Digital Output
- ◇ Dry and Wet Contact Support
- ◇ 10/100 Mbps Base-T Ethernet Communication



The HSQ-6050 is a high-density I/O module with a built-in 10/100 Base-T interface for seamless Ethernet connectivity. This module provides 12 digital input and six digital output channels with 2000 VRMS isolation protection.

### SPECIFICATIONS

#### Digital Input

- **Channels:** 12
- **Dry Contact:** Logic level 0: close to GND  
Logic level 1: open
- **Wet Contact:** Logic level 0: 0 – 3 V<sub>DC</sub>  
Logic level 1: 10 – 30 V<sub>DC</sub>
- **3 kHz Counter Input Support (32-bit + 1-bit Overflow)**
- **Keep/Discard Counter Value when Power-Off**
- **3 kHz Frequency Input Support**
- **Inverted DI Status Support**

#### Digital Output

- **Channels:** 6 (Sink Type), open collector to 30 V, 100 mA maximum load
- **High-to-Low and Low-to-High Delay Output Support**
- **5 kHz Pulse Output**

#### General

- **Power Consumption:** 2 W @ 24 V<sub>DC</sub>
- **Connectors:** Plug-in screw terminal block (I/O and power)
- **Watchdog:** System (1.6 second) and Communication (programmable)
- **Power Input:** 10 – 30 V<sub>DC</sub>

#### Protection

- **Isolation Protection:** 2,000 V<sub>DC</sub>
- **Power Reversal Protection**

#### Environment

- **Operating Temperature:** -10° – 70° C (14° – 158° F)
- **Storage Temperature:** -20° – 80° C (-4° – 176° F)
- **Humidity (Operating):** 20 – 95% RH (non-condensing)
- **Humidity (Storage):** 0 – 95% RH (non-condensing)

