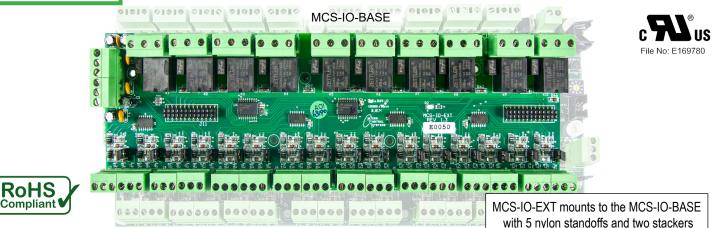


MCS-IO-EXT Description & Specifications



Part # MCS-IO-EXT

Description

The **MCS-IO-EXT** provides a flexible and cost effective way to allow relay output, sensor input and analog output expansion for **MCS MAGNUM** and **Micromag**. Each MCS-IO-EXT can be paired with a MCS-IO-BASE to double the number of inputs and outputs. Each MCS-IO-EXT board is powered by the MCS-IO-BASE board once it is stacked on top. The printed circuit board is a four layer board with a separate power and ground plane to provide the ultimate in efficient electrical noise suppression. This coupled with noise suppression circuitry makes the MCS-IO-EXT virtually impervious to electrical noise. The MCS-IO-EXT provides sixteen sensor inputs. The inputs are universal and support either a digital or analog input signal.

The MCS-IO-EXT also provides four analog outputs that provide independent dc voltage outputs from 0 to 10vdc. These analog outputs are controlled by the MAGNUM/Micromag micro controllers.

Each input and output consists of a three position removable terminal block, providing +5vdc, ground and signal in. A polyfuse protects the +5vdc line from shorted sensors. The MCS-IO-base also provides ten relay outputs fused at 5.0 amps. Each relay output provides common, normally open and normally closed contacts on a removable terminal block. The terminal blocks provide screw connections which eliminate the need for sta-cons. Because the terminal blocks are removable, board replacement requires no wires to be removed. Once the MCS-IO-EXT is paired with the MCS-IO-BASE the number of sensors are expanded from 16 to 32, the number of analog outputs from 4 to 8, and the number of relays from 10 to 20 allowing twice the number of sensors, analog outputs, and relay outputs in the same footprint of one MCS-IO-BASE.

Specifications

Controller

Controller	
Dimensions	10.7"l, x 3.5"w, 2.50"h
Mounting	Mounts on top of the MCS-IO-BASE
C (on top of the MCS-IO-BASE by
Ę	5 nylon standoffs and 2 stackers
	neaders (included on MCS-IO-BASE)
	-40°F to +158°F (-40°C to +70°C)
Operating Humidity	
	-40°F to +158°F (-40°C to +70°C)
	16 inputs on base 0-5vdc
	with MCS-IO-EXT - 32 inputs total
	4 outputs on base 0-10vdc
	with MCS-IO-EXT - 8 AO outputs
	10 outputs on base 5amps @
	230VAC
-	Four layer with separate power
	and ground planes
	Powered by MCS-IO-BASE Power
	12 vdc Regulated Power Supply
Minimum (Brown in)	
Amp Draw (Loaded)?	1.02 Amps (total IO Ext and IO Base)

Power Detection Automatic Power Fail Reset on MCS-IO-BASE

Packaging

MCS-SHIELDWIRE-GROUNDING multi-terminal splicing connector with 9"- 16 awg wire with ring terminal (package of 2).



Kit of (5) #6-32 x 1" Female/Female Hex Nylon Tapped Spacers

Kit of (1) 12 Pin Double Strip Header, 2.54mm Center, Straight Installation Sheet

Ship Weight 1.21 lb (approx) Box Dimensions...... 12" x 5" x 3" (approx)

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