SmartStix™ Fieldbus I/O

Fieldbus I/O Less Than $10 Per Point

SmartStix™ Fieldbus I/O is a new terminal-block style I/O for use with DeviceNet™ or PROFIBUS™ networks. SmartStix I/O can be used with a programmable controller, industrial computer, drive, or CE-based controller. Because SmartStix Fieldbus I/O connects to any DeviceNet or PROFIBUS network, it can be used alone or combined with other I/O to provide the most cost-effective I/O selection for the application. SmartStix Fieldbus I/O can cost less than $10 (USD) per point…and includes bus connectors.

DeviceNet, PROFIBUS —You Choose

If you are already using or are planning to use a DeviceNet or PROFIBUS control network, consider SmartStix Fieldbus I/O. DeviceNet is an open fieldbus that can connect a variety of devices and controls on a single network, significantly reducing installation costs. PROFIBUS-DP is an open control network that allows a single method of connectivity for automation equipment and devices on a single network that also greatly reduces installation costs. Whether you choose DeviceNet or PROFIBUS, there is a SmartStix I/O family to meet your needs and budget.
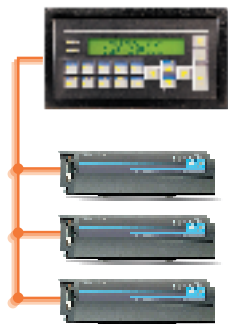
SmartStix Fieldbus I/O

Compact, Rugged…Easy to Set Up

SmartStix Fieldbus I/O is extremely compact, providing 16 and 32 point digital I/O in a package only 1.5" (39mm) deep and a footprint of 2"H x 4.5"W (50 x 116mm) or 2"H x 7"W (50 x 177mm). With its small footprint, SmartStix Fieldbus I/O takes up very little panel space, whether located in the main control panel or tucked away in a remote location. SmartStix Fieldbus I/O has a barrier style terminal strip and can be mounted on a DIN-rail or directly to the panel. The module is designed for rugged environments, and it is easy to set up. Plus, removable terminals make field replacement fast and convenient.

Local or Distributed I/O

SmartStix Fieldbus I/O may be the answer to your local and remote I/O needs. SmartStix Fieldbus I/O connects to a wide variety of controller and computer DeviceNet or PROFIBUS Masters. Use it as your only I/O system or supplement your existing I/O system. With its compact design, SmartStix Fieldbus I/O can fit in the smallest areas in your panel, and since it's a fieldbus I/O, it can also be a cost-effective distributed I/O.

DeviceNet or PROFIBUS

Electronic Short-Circuit Protection (ESCP)

Removable Terminals

ODVA Certified

SmartStix Fieldbus I/O Application Examples

Operator Control Station (OCS)
with SmartStix Fieldbus I/O
on DeviceNet* or PROFIBUS** network

Programmable Controller (PLC)
with SmartStix Fieldbus I/O
on DeviceNet or PROFIBUS network

Industrial Computer/CE-based Controller
with SmartStix Fieldbus I/O
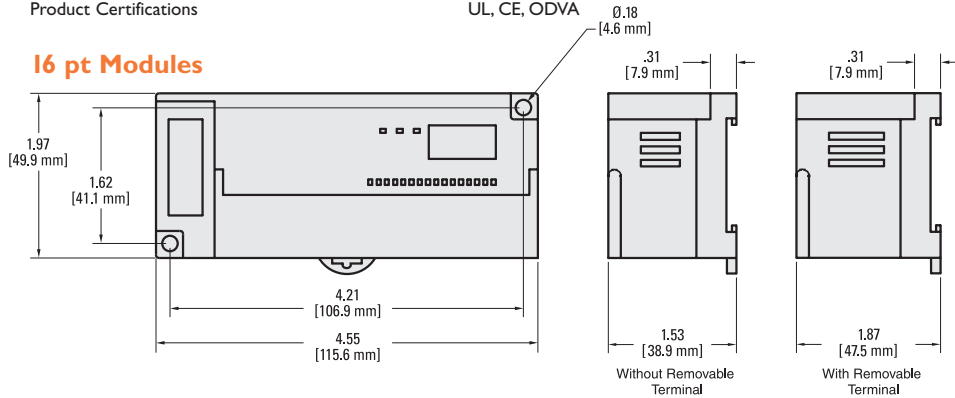on DeviceNet or PROFIBUS network

Requires HE800DNM650 DeviceNet Master SmartStack Module.

**Requires HE800PBM650 PROFIBUS Master SmartStack Module.*

Specifications

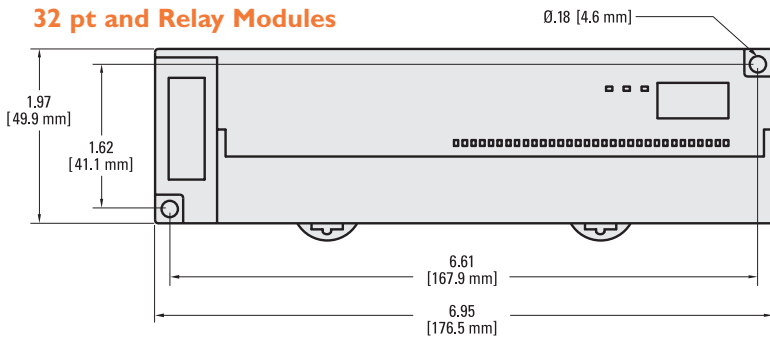| Item	SmartStix™ Fieldbus I/O Specification
Bus Protocol	DeviceNet or PROFIBUS-DP
Bus Connector	DeviceNet: 5-position terminal; PROFIBUS: 9-pin D-sub connector (included)
Maximum Distance	DeviceNet: up to 500m; PROFIBUS: up to 1.2km
Maximum Number of Modules/Network	DeviceNet: 63; PROFIBUS: 32/segment
Module Configuration Method	Module ID set using two rotary switches
LED Indication	I/O Status (one per point), Power, Module Status, Network Status
Output Protection	Electronic Short-Circuit Protection (16 and 32 Output modules only)
Product Certifications	UL, CE, ODVA

Local or Remote

Expansion I/O, Only I/O

Bus Connector Included

16 pt Modules

Ø.18 [4.6 mm]

1.97 [49.9 mm]
1.62 [41.1 mm]
4.21 [106.9 mm]
4.55 [115.6 mm]

.31 [7.9 mm]
1.53 [38.9 mm]
Without Removable Terminal

.31 [7.9 mm]
1.87 [47.5 mm]
With Removable Terminal

32 pt and Relay Modules

Ø.18 [4.6 mm]

1.97 [49.9 mm]
1.62 [41.1 mm]
6.61 [167.9 mm]
6.95 [176.5 mm]

Part Numbers	Description	
DeviceNet Modules	**(includes bus connector)**	
Fixed Terminals	**Removable Terminals**	
Digital		
HE400DIM610	HE409DIM610	16 DC Inputs (24vdc, pos/neg logic)
HE400DIM710	HE409DIM710	32 DC Inputs (24vdc, pos/neg logic)
HE400DQM601	HE409DQM601	16 DC Outputs (24vdc, neg logic, 0.5A)
HE400DQM606	HE409DQM606	16 DC Outputs (24vdc, pos logic, 0.5A)
HE400DQM701	HE409DQM701	32 DC Outputs (24vdc, neg logic, 0.5A)
HE400DQM706	HE409DQM706	32 DC Outputs (24vdc, pos logic, 0.5A)
HE400DQM602	HE409DQM602	16 Relay Outputs (250vac, 30vdc, 2.0A)
HE400DIQ811	HE409DIQ811	16 DC Inputs (24vdc, pos/neg logic) and 16 DC Outputs (24vdc, neg logic, 0.1A, ESCP not available)
Analog		
Available 1Q 2004	HE409ADC970	12 channel Analog Inputs (current and voltage)
	HE409DAC207	8 channel Analog Outputs (current and voltage)
	HE409MIX577	4 channel In/2 channel Out (current and voltage)
	HE409MIX977	8 channel In/4 channel Out (current and voltage)
PROFIBUS Modules	**(includes bus connector)**	
Fixed Terminals	**Removable Terminals**	
Digital		
HE450DIM610	HE459DIM610	16 DC Inputs (24vdc, pos/neg logic)
HE450DIM710	HE459DIM710	32 DC Inputs (24vdc, pos/neg logic)
HE450DQM601	HE459DQM601	16 DC Outputs (24vdc, neg logic, 0.5A)
HE450DQM606	HE459DQM606	16 DC Outputs (24vdc, pos logic, 0.5A)
HE450DQM701	HE459DQM701	32 DC Outputs (24vdc, neg logic, 0.5A)
HE450DQM706	HE459DQM706	32 DC Outputs (24vdc, pos logic, 0.5A)
HE450DQM602	HE459DQM602	16 Relay Outputs (250vac, 30vdc, 2.0A)
HE450DIQ811	HE459DIQ811	16 DC Inputs (24vdc, pos/neg logic) and 16 DC Outputs (24vdc, neg logic, 0.1A, ESCP not available)
Analog		
Available 1Q 2004	HE459ADC970	12 channel Analog Inputs (current and voltage)
	HE459DAC207	8 channel Analog Outputs (current and voltage)
	HE459MIX577	4 channel In/2 channel Out (current and voltage)
	HE459MIX977	8 channel In/4 channel Out (current and voltage)

32 pt DeviceNet Module (Includes Connector)

PROFIBUS D-Sub Connector Kit Included

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