

SMARTSTIX™ I/O FOR THE XL SERIES OCS



All models shown smaller than actual size.

HE559DIQ816

HE559DIM610

HE559 Series



* Digital models only.

- Expands Analog and Digital I/O of Any OCS Using a CsCAN Network
- May be Used Locally or Remotely
- Extremely Compact
- Removable Screw Terminals

A New I/O for OCS

SmartStix™ I/O is a new terminal-block style I/O designed for use with the the XL series Operator Control Station (OCS). It can be used to expand the I/O capacity of any OCS, and it is very cost effective as remote I/O. SmartStix I/O connects to any OCS CsCAN™ network port to provide the best I/O selection for the application. And, output modules feature Electronic Short-Circuit Protection (ESCP).

Compact, DIN-Rail Mounted

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

Expands I/O Capacity, Local or Remote

SmartStix I/O easily expands the I/O capacity of any OCS utilizing the CsCAN network port available with every model. It is especially cost effective when added to an XL Series OCS. SmartStix I/O offers fast response times without sacrificing robustness, with no need for a costly I/O interface unit. In addition to its peer-to-peer capabilities, CsCAN is used as a highly efficient method of distributing SmartStix I/O up to 1829 m (6000')* away.

* Maximum distance is 457 m (1500') per segment, with up to 1829 m (6000') possible using repeaters.

Easy to Set Up

SmartStix require minimal time and complexity to configure. Just assign a unique ID, connect the 5-wire shielded cable and you will be up and running in no time.

SPECIFICATIONS

Bus Protocol: CsCAN (control station controller area network)

Bus Connector: 5-position terminal strip
Maximum Distance: 457 m (1500') per segment; 4 segments max

Maximum Number of Total Nodes: 253
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: CE (all models), UL (digital only)

ANALOG INPUTS

Input Ranges: ±5V, ±10 Vdc, 4 to 20 mA, ±20 mA DC

Resolution: 14 bits

Accuracy@ 25°C: 0.1%



HE559DIQ816

HE559DIM610

Input Impedance: 1 M Ω (voltage range), 150 Ω (mA range)
Isolation: 1000 Vdc IEC61010-1 300 VRMS
Maximum Continuous Overload: 150 Vac ($\pm 10V$), ± 30 mA (± 20 mA), clamped at $\pm 6V$
DIGITAL INPUTS
Rated Input Current: 7 mA
Rated Voltage: 11 to 25 Vdc
ON Voltage Level: 19 Vdc or less
OFF Voltage Level: 6 Vdc or less
Input Characteristics Bidirectional
Isolation Method: Photo coupler
OFF to ON Response: 0 to 3 ms or less
ON to OFF Response: 0 to 3 ms or less

ANALOG OUTPUTS
Output Ranges: ± 5 , ± 10 Vdc, 4 to 20 mA, ± 20 mA DC
Resolution: 14 bits
Accuracy@ 25°C: 0.1%
Load Resistance: 600 min (voltage), 500 max (mA)
Isolation: 1000 Vdc, IEC61010-1 300 VRMS
Output Characteristic: Sourcing
DIGITAL OUTPUTS
Operating Voltage: 24 Vdc
Rated Load Voltage: 24 Vdc
Output Type: Sourcing
Maxload Current: 0.5 A max per output 3 A per common

OFF to ON Response: 2 mS
ON to OFF Response: 2 mS
RELAY OUTPUTS
Rated Load Voltage: 24 Vdc, 220 Vac
Minimum Load Voltage/Current: 5 Vdc/1 mA
Maximum Load Current (Resistive): 2.0 A per channel, 5.0 A per common
OFF to ON Response: 10 mS max
ON to OFF Response: 12 mS max
Output Type: NO
Dimensions (Approx):
32 I/O, Analog I/O or Relay Output: 176 L x 48 D x 50 mm H (7 x 1.9 x 2")
16 I/O (Not Relay): 115 L x 48 D x 50 mm H (4.5 x 1.9 x 2")

To Order

DIGITAL I/O

MODEL NO.	DESCRIPTION
HE559DIM610	16 DC inputs (24 Vdc positive/negative logic) I/O expander for CsCAN with removable field terminals
HE559DIM710	32 DC inputs (24 Vdc positive/negative logic) I/O expander for CsCAN with removable field terminals
HE559DIQ816	16 DC inputs (24 Vdc positive/negative logic) plus 16 DC outputs (pos logic) 0.5 A I/O expander for CsCAN with removable field terminals
HE559DQM602	16 relay outputs (250 Vac, 30 Vdc, 2 A) for CsCAN with removable field terminals
HE559DQM606	16 DC outputs (24 Vdc positive logic, 0.5 A) I/O expander for CsCAN with removable field terminals
HE559DQM706	32 DC outputs (24 Vdc, positive logic, 0.5 A) I/O expander for CsCAN with removable field terminals

ANALOG I/O

HE559MIX577	4 analog inputs ($\pm 10V$, ± 20 mA) 14-bit resolution plus 2 analog outputs ($\pm 10V$, ± 20 mA) 14-bit resolution; channel-by-channel voltage/current selection for all channels; for CsCAN with removable field terminals
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SmartStix I/O module comes with a 5-pin terminal style network connector. An optional M12 adaptor for M12 cable sets is available. SmartStix I/O have removable terminals and can be DIN-rail mounted.

Ordering Example: HE559DIM610, 16 DC input model.