

E3X Network Communication Interface Units

Reduced Wiring Solution to Interface with Open Communication Networks

Build efficient sensor input slave blocks using E3X Communication Interface Units and multiple E3X sensors. This solution reduces wiring, saves space and shortens setup time.

- EtherCAT, CompoNet, DeviceNet and serial communication units available
- Connect up to 16 fiber-optic sensors to each unit (up to 30 with EtherCAT)
- Supports explicit message communications
- Use E3X-CN02 Cordless Slave Connector for each sensor
- Remote setting, monitoring and operating through CX-Integrator software
- Mobile Programming Console for simple setting and monitoring locally



Configuration



Ordering Information

Network Communication Interface Units

Network type	Maximum connectable amplifiers	Compatible sensor amplifiers	Model
EtherCAT	30 units	E3X-HD0, E3X-MDA0, E3S-DA0	E3X-ECT
CompoNet	16 units	E3X-HD0, E3X-MDA0, E3S-DA0	E3X-CRT
DeviceNet	16 units	E3X-DA7-S, E3X-DA9-S, E3X-DA6-S, E3X-DA8-S, E3X-DAG6-S, E3X-DAG8-S, E3X-DAB6-S, E3X-DAB8-S, E3X-DAH6-S, E3X-DAH8-S, E3X-DA6RM-S, E3X-DA8RM-S, E3X-DA6TW-S, E3X-DA8TW-S, E3X-DA6AT-S, E3X-DA8AT-S; Dual Digital Fiber Optic Amplifiers: E3X-MDA6, E3X-MDA8; Laser Photoelectric Sensors E3C-LDA11, E3C-LDA41; High-resolution Digital Proximity Sensors: E2C-EDA11, E2C-EDA41	E3X-DRT21S VER.3
	16 units	E3X-DA6, E3X-DA8, E3X-DAB6, E3X-DAB8, E3X-DAG6, E3X-DAG8, E3X-DA6TW, E3X-DA8TW, E3X-DA6-P	E3X-DRT21
Serial RS-422	16 units	E3X-DA6, E3X-DA8, E3X-DAB6, E3X-DAB8, E3X-DAG6, E3X-DAG8, E3X-DA6TW, E3X-DA8TW, E3X-DA6-P	E3X-CIF11

Connector

Item	Function	Model
Cordless slave connector	Replaces individual cabling for network communications	E3X-CN02

Mobile Console

Item	Description	Function	Model
Mobile console set	Mobile console with programming head, cable, and AC adapter	Set, teach and fine-tune one or a group of amplifiers simultaneously; copy settings from one amplifier to another within the same group or to a group on another machine; set mode lockout to limit access; monitor/troubleshoot operation	E3X-MC11-SV2

Ratings and Specifications

Network type	EtherCAT	CompoNet	DeviceNet (advanced)
Model	E3X-ECT	E3X-CRT	E3X-DRT21-S VER.3
Remote I/O communications slave function	I/O communication	I/O communication	Monitors ON/OFF output, status, incident light level (digital display data)
Message communications function	Explicit message, sensor error output	Explicit message, sensor error output	Sets parameters using Explicit messages
Configurator	CX-Integrator in CX-One Automation Software Suite: Edits slave device parameters, enables device monitor functions		
Mobile console connection	E3X-MC11-S-V2	E3X-MC11-S-V2	E3X-MC11-S-V2
Power supply	20.4 to 26.4 VDC (24 VDC, -15% to +10%)	14 to 26.4 VDC, supplied from communication connector	11 to 25 VDC, supplied from communication connector
Current consumption	100 mA max.	100 mA max.	70 mA max.
Ambient operating temperature	0° to 55°C	0° to 55°C	-20°C to 55°C
Ambient operating humidity	25% to 85% RH (No icing or condensation)	25% to 85% RH (No icing or condensation)	35% to 85% RH (with no condensation)
Dimensions (mm)	41 W x 32.4 H x 102.5 D	41 W x 32.4 H x 102.5 D	30 W x 34.6 H x 71.3 D

Network type	DeviceNet	Serial RS-422
Model	E3X-DRT21	E3X-CIF11
Remote I/O communications	ON/OFF data, status, and monitoring incident levels	No
Messages communications	Explicit messages	Function as CompoWay/F slave
Configurator	CX-Integrator in CX-One Automation Software Suite: Edits slave device parameters, enables device monitor functions	No
Mobile console connection	E3X-MC11-S-V2	E3X-MC11-S-V2
Power supply	11 to 25 VDC from DeviceNet communications connector	11.4 to 26.4 VDC from power supply cable
Current consumption	70 mA max.	40 mA max.
Ambient operating temperature	-20° to 55°C	-20° to 55°C
Ambient operating humidity	35% to 85% RH (with no condensation)	35% to 85% RH (with no condensation)
Dimensions (mm)	30 W x 34.6 H x 71.3 D	30 W x 34.6 H x 71.3 D

Mouser Electronics

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