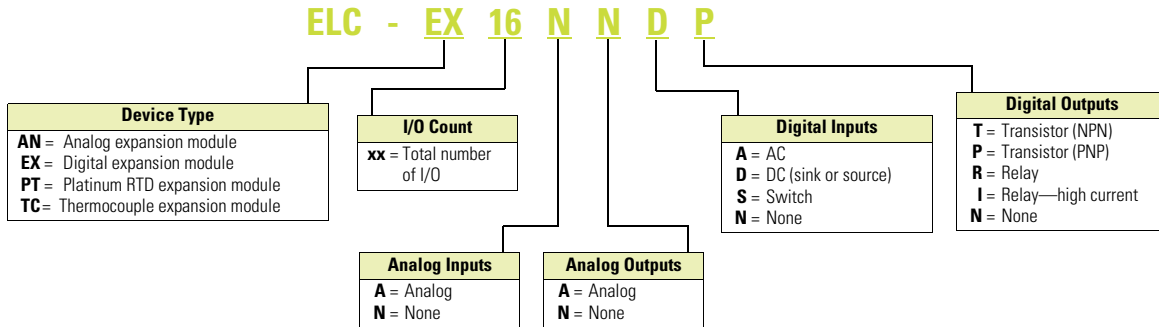


ELC Expansion Modules

Right Side Bus

Expansion Modules

4



Features

- Digital right side expansion modules can be used with any ELC controller
- They simply snap together to allow the ELC backplane to pass through each connected module
- Add only the amount of I/O you need
- Choose I/O counts as small as 6 points and as large as 14 points per module
- I/O modules are available in a broad selection of AC/DC inputs, relay/transistor and high current outputs that may be used together in any combination
- Maximum of 14 modules per controller

ELC-EX08NNDN



Digital Expansion Modules (Right Side Bus) 8-Point

| Description | Inputs | Outputs | Max. Current Consumption (at 24 Vdc) | Catalog Number |
|----------------------------|-------------|------------------------------|--------------------------------------|----------------|
| 8 DC input module | (8) 24 Vdc | — | 50 mA | ELC-EX08NNDN |
| 8 AC input module | (8) 110 Vac | — | 50 mA | ELC-EX08NNAN |
| 8 Transistor output module | — | (8) Transistor (sink), 0.3 A | 70 mA | ELC-EX08NNNT |
| 8 Relay output module | — | (8) Relay, 1.5 A | 70 mA | ELC-EX08NNNR |

ELC-EX08NNDT



Digital Expansion Modules (Right Side Bus) 16-Point

| Description | Inputs | Outputs | Max. Current Consumption (at 24 Vdc) | Catalog Number |
|------------------------------------|-------------|--------------------------------|--------------------------------------|----------------|
| 8 DC input/output module | (4) 24 Vdc | (4) Transistor (sink), 0.3 A | 70 mA | ELC-EX08NNDT |
| 8 DC input/relay output module | (4) 24 Vdc | (4) Relay, 1.5 A | 70 mA | ELC-EX08NNDR |
| 6 High current relay output module | — | (6) Relay, 6 A | 70 mA | ELC-EX06NNNI |
| 16 DC input module | (16) 24 Vdc | — | 100 mA | ELC-EX16NNDN |
| 16 DC input/output module | (8) 24 Vdc | (8) Transistor (sink), 0.3 A | 90 mA | ELC-EX16NNDT |
| 16 DC input/output module | (8) 24 Vdc | (8) Transistor (source), 0.3 A | 100 mA | ELC-EX16NNDP |
| 16 DC input/relay output module | (8) 24 Vdc | (8) Relay, 1.5 A | 90 mA | ELC-EX16NNDR |

ELC-AN04ANNN



Analog Input and Output Modules (Right Side Bus)

Analog input/output modules uses voltage or current mode for any channel—see table for resolution based on type and mode.

| Description | Input Points | Resolution | Mode | Output Points | Resolution | Mode | Maximum Current Consumption (at 24 Vdc) | Catalog Number |
|------------------------------|--------------|--------------------------|-----------------|---------------|------------|------------------------------------|---|----------------|
| 4 Analog input module | 4 | V = 14 bit I = 13 bit | ±10 V ±20 mA | — | — | — | 90 mA | ELC-AN04ANNN |
| 2 Analog output module | — | — | — | 2 | 12 bit | 0–20 mA; 4–20 mA 0–10 V; 2–10 V | 125 mA | ELC-AN02NANN |
| 4 Analog output module | — | — | — | 4 | 12 bit | 0–20 mA; 4–20 mA 0–10 V; 2–10 V | 170 mA | ELC-AN04ANNN |
| 6 Analog input/output module | 4 | V = 12 bit I = 11 bit | ±10 V ±20 mA | 2 | 12 bit | 0–20 mA 0–10 V | 170 mA | ELC-AN06AANN |

ELC-PT04ANNN



Temperature Input Modules (Right Side Bus)

Thermocouple and Platinum RTD temperature sensor input modules with 14 bit resolution.

| Description | Input Points | Resolution | Sensor Type | Maximum Current Consumption (at 24 Vdc) | Catalog Number |
|-----------------------------|--------------|------------|---------------|---|----------------|
| 4 Thermocouple input module | 4 | — | J, K, R, S, T | 90 mA | ELC-TC04ANNN |
| 4 Platinum RTD input module | 4 | 14 bit | PT100 | 90 mA | ELC-PT04ANNN |

ELC-MC01



Motion Control Module (Right Side Bus)

Single axis motion control module.

If used with ELC2-PC controllers, it can provide a second axis because these controllers have a single axis built-in.

If used with the ELC2-PV controllers, it can provide a third axis because these controllers incorporate two axis of motion control and are capable of output pulses up to 200 kHz.

| Description | Input Type | Output Type | Catalog Number |
|-----------------------------------|----------------------------------|-------------------------|----------------|
| Single axis motion control module | Phase in, start, stop, and so on | Phase, pulse, direction | ELC-MC01 |

ELC-485APTR



RS-485 Adapter Module (Right Side Bus—End Module)

Passive RS-485 connection device module.

RJ12 port for connecting to a drive.

2-pin screw terminal to connect to ELC controller.

Male and female DB9 connectors to connect to other RS-485 devices.

| Description | Connector Types | Catalog Number |
|-------------------------------|--|----------------|
| RS-485 Connect adapter module | RJ12, DB9 (male and female), 2-pin screw terminals | ELC-485APTR |

ELC-EX08NNSN



Toggle Switch Input Module (Right Side Bus)

8 input switch module for manual switch inputs to the ELC controllers—used for debugging applications or product training demonstrations

| Description | Maximum Current Consumption (at 24 Vdc) | Catalog Number |
|------------------------------|---|----------------|
| 8 Toggle switch input module | 20 mA | ELC-EX08NNSN |