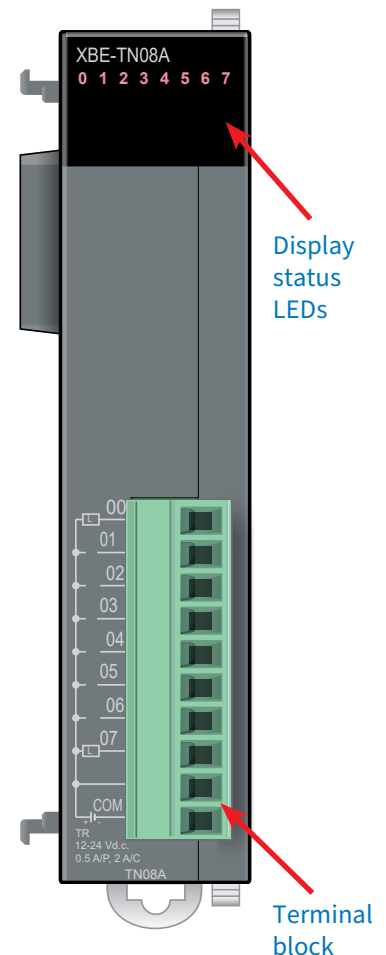


## XBE-TN08A Digital Output Module

XBE-TN08A is an 8-point sinking discrete output module that supports 12VDC – 24 VDC.

| Part Number      | Price   | Classification        | Description                                                                                                                                                         | Drawing             |
|------------------|---------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <b>XBE-TN08A</b> | \$60.00 | Digital Output Module | LS Electric XGB discrete output module, 8-point, 12-24 VDC, sinking, 1 common(s), 8 point(s) per common, 0.5A/point, 2A/common. Removable terminal blocks included. | <a href="#">PDF</a> |

| General Specifications            |                 | XBE-TN08A                                                                  |
|-----------------------------------|-----------------|----------------------------------------------------------------------------|
| <b>Input Point</b>                |                 | 8 point                                                                    |
| <b>Insulation Method</b>          |                 | Photocoupler insulation                                                    |
| <b>Rated Load Voltage</b>         |                 | 12/24 VDC                                                                  |
| <b>Load Voltage Range</b>         |                 | 10.2–26.4 VDC                                                              |
| <b>Maximum Load Current</b>       |                 | 0.5 A/1 point                                                              |
| <b>Off Leakage Current</b>        |                 | 0.1 mA or less                                                             |
| <b>Maximum Inrush Current</b>     |                 | 4A/10ms or less                                                            |
| <b>Maximum Voltage Drop (On)</b>  |                 | 0.4 VDC or less                                                            |
| <b>Over Voltage Protection</b>    |                 | Zener Diode                                                                |
| <b>Response Time</b>              | <b>Off → On</b> | 1ms or less                                                                |
|                                   | <b>On → Off</b> | 1ms or less (Rated load, resistive load)                                   |
| <b>Common Method</b>              |                 | 8 point/COM                                                                |
| <b>Proper Cable Size</b>          |                 | Stranded cable 0.3–0.75 mm <sup>2</sup> (external diameter 2.8 mm or less) |
| <b>Current Consumption</b>        |                 | 40mA (when all points On)                                                  |
| <b>External Power Supply</b>      | <b>Voltage</b>  | 12/24 VDC ± 10% (ripple voltage 4 Vp-p or less)                            |
|                                   | <b>Current</b>  | 10mA or less (24VDC connection)                                            |
| <b>Operation Indicator</b>        |                 | Output ON, LED ON                                                          |
| <b>External Connection Method</b> |                 | 10 point terminal block connector                                          |
| <b>Weight</b>                     |                 | 52g                                                                        |



## XBE-TN08A - Digital I/O Module Configuration

### Direct Variables

The base rack slot number determines the Direct Variable name for the module. Each slot is automatically allocated 64 input points and 64 output points. See the chart below for the actual input Direct Variable assignments used.

For Direct Variable nomenclature explanation, see [Direct Variable User Programming Memory](#).

| Part Number      | PLC Memory Allocation                                       | Actual I/O Direct Variable |
|------------------|-------------------------------------------------------------|----------------------------|
| <b>XBE-TN08A</b> | Input: %IX0.z.0 – %IX0.z.63<br>Output: %QX0.z.0 – %QX0.z.63 | %QX0.z.0 – %QX0.z.7        |

“z” denotes the module slot (2 to 8).

Follow the Quick start video to learn how to Register and Configure any Digital I/O Module.

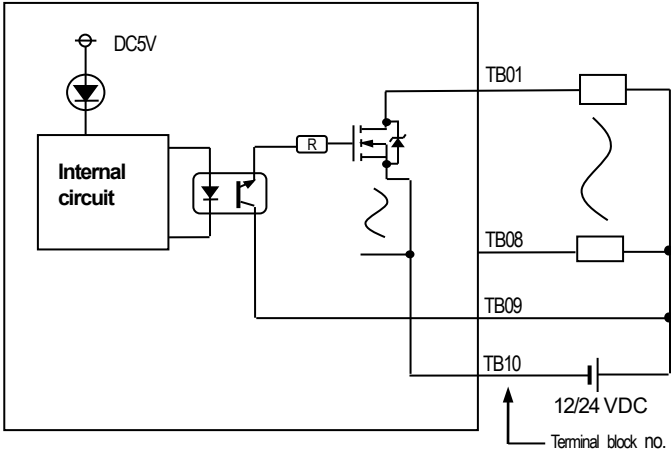
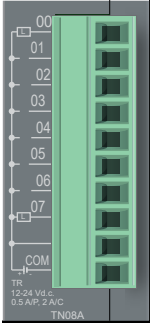
[Digital Module Setup](#)



# XGB Digital Modules

## XBE-TN08A Digital Output Module Wiring

### XBE-TN08A Circuit Configuration

| Circuit Configuration                                                             | Terminal Description | I/O Direct Variable | Terminal Block Image                                                                |
|-----------------------------------------------------------------------------------|----------------------|---------------------|-------------------------------------------------------------------------------------|
|  | 00                   | %QX0.z.0            |  |
|                                                                                   | 01                   | %QX0.z.1            |                                                                                     |
|                                                                                   | 02                   | %QX0.z.2            |                                                                                     |
|                                                                                   | 03                   | %QX0.z.3            |                                                                                     |
|                                                                                   | 04                   | %QX0.z.4            |                                                                                     |
|                                                                                   | 05                   | %QX0.z.5            |                                                                                     |
|                                                                                   | 06                   | %QX0.z.6            |                                                                                     |
|                                                                                   | 07                   | %QX0.z.7            |                                                                                     |
|                                                                                   | (no label, 12/24V)   | n/a                 |                                                                                     |
|                                                                                   | COM                  | n/a                 |                                                                                     |

Note: In the I/O Direct Variable name, **z**=slot number.