

XBE-DR16A Digital Combo Module

XBE-DR16A is a combination module that has eight 24VDC sinking/sourcing inputs and 8 relay outputs.

Part Number	Price	Classification	Description	Drawing
XBE-DR16A	\$97.00	Digital Combo Module	LS Electric XGB discrete combo module, Input: 8-point, 24 VDC, sinking/sourcing, Output: 8-point, 125 VDC/250 VAC, relay, (8) Form A (SPST) relays, 2A/point, 5A/common. Removable terminal blocks included.	PDF

General Specifications			XBE-DR16A
Input Specifications	Input Point		8 point
	Rated Input Voltage		24VDC
	Rated Input Current		~ 4mA
	Operation Voltage Range		20.4 – 28.8 VDC (ripple rate <5%)
	On Voltage/Current		19VDC or higher / 3mA or higher
	Off Voltage/Current		6VDC or less / 1mA or less
	Input Resistance		~ 5.6kΩ
	Response Time	Off → On	1/3/5/10/20/70/100 ms (set by CPU parameter) Default: 3ms
		On → Off	
Common Method		8 point / COM	
Output Specifications	Output Point		8 point
	Rated Voltage / Current		24VDC, 2A (resistive load) / 220VAC, 2A (COSΨ=1), 5A/COM
	Min. Load Voltage / Current		5VDC / 1mA
	Max. Load Voltage		250VAC, 125VDC
	Off Leakage Current		0.1 mA or less
	Max. On/Off frequency		3,600 times
	Surge Absorber		None
	Response Time	Off → On	10ms or less
		On → Off	12ms or less
Common Method		8 point / COM	
Insulation Method			Photocoupler insulation (input), Relay insulation (output)
Insulation Pressure			560VACrms / 3 Cyle (altitude 2000m)
Insulation Resistance			10MΩ or more by Megohmmeter
Proper Cable Size			Stranded cable 0.3–0.75 mm ² (external diameter 2.8 mm or less)
Current Consumption			230mA (when all inputs and outputs are On)
Operation Indicator			Input On, LED On Output On, LED On
External Connection Method			9 pin connector x 2
Weight			81g

XBE-DR16A - 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.

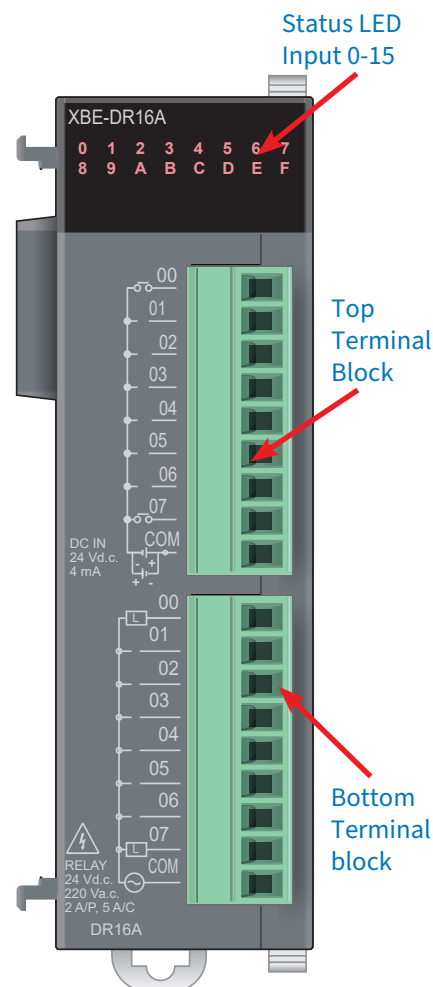
For Direct Variable nomenclature explanation, see [Direct Variable User Programming Memory](#).

Part Number	PLC Memory Allocation	Actual I/O Direct Variable
XBE-DR16A	Input: %IX0.z.0 ~ %IX0.z.63 Output: %QX0.z.0 ~ %QX0.z.63	%IX0.z.0 ~ %IX0.z.7 %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-DR16A Digital Combo Module Wiring

XBE-DR16A Input Circuit Configuration

Circuit Configuration

Terminal Description	I/O Direct Variable
00	%IX0.z.0
01	%IX0.z.1
02	%IX0.z.2
03	%IX0.z.3
04	%IX0.z.4
05	%IX0.z.5
06	%IX0.z.6
07	%IX0.z.7
COM	n/a

XBE-DR16A Output Circuit Configuration

Circuit Configuration

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
COM	n/a

Note: Input Ambient Temp Derating: Derate 5% for each degree above 50°C. Max 55°C (25% derating at 55°C).