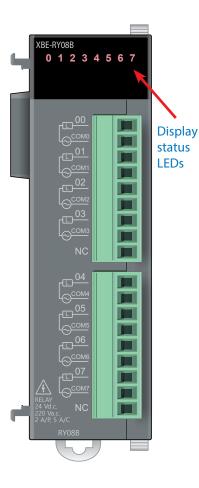


XGB Digital Modules

XBE-RY08B Digital Output Module

Part Number Price		Classification	Description	Drawing		
XBE-RY08B	\$;05]51:	Digital Output	LS Electric XGB relay output module, 8-point, 125 VDC/250 VAC, (8) Form A, 8 isolated common(s), 1 point(s) per common, 2A/point. Removable terminal blocks included.	PDF		

General S _i	pecifications	XBE-RY08B				
Output Point		8 point				
Insulation Method		Relay insulation				
Rated Load Voltage		24VDC (resistive load) / 220VAC (COSΨ=1)				
Rated Load Cu	ırrent	2A				
Minimum Load Voltage/ Current		5VDC / 1mA				
Maximum Load Voltage		250VAC, 124VDC				
Off-leakage Current		0.1 mA (220VAC, 60Hz)				
Maximum On/Off Frequency		3,600 times/hour				
Over Voltage Protection		None				
	Mechanical	20 million times or more				
		Rated load voltage / current 100,000 times or more				
Service Life	Electrical	200VAC / 1.5 A, 240VAC / 1A (COSΨ=0.7) 100,000 times or more				
	Electrical	200VAC / 1A, 240VAC / 0.5 A (COSΨ=0.35) 100,000 times or more				
		24VDC / 1A, 100VDC / 0.1 A (L/R=7ms) 100,000 times or more				
Response	Off → On	10ms or less				
Time	On → Off	12ms or less				
Common Meth	od	1 point / COM				
Proper Cable Size		Standard cable 0.3–0.75 mm ² (external diameter 2.8 mm or less)				
Current Consumption		230mA (when all point ON)				
Operation Indicator		Output ON, LED ON				
External Connection Method		9 point terminal block connector x 2				
Weight		81g				



XBE-RY08B - 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.

For Direct Variable nomenclature explanation, see Direct Variable User Programming Memory.

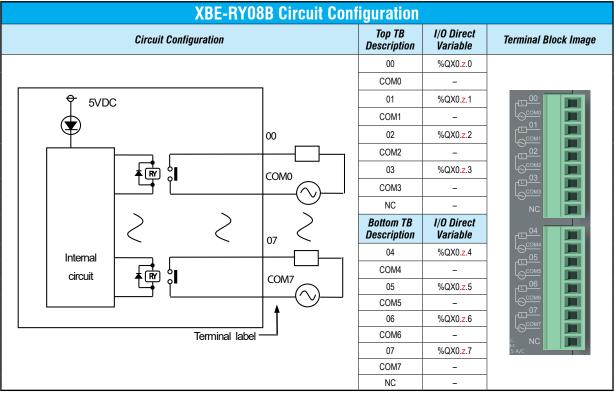
Part Number	PLC Memory Allocation	Actual I/O Direct Variable
XBE-RY08B	Input: %IX0.z.0 – %IX0.z.63 Output: %QX0.z.0 – %QX0.z.63	%QX0.z.0 – %QX0.z.7

[&]quot;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-RY08B Digital Output Module Wiring



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



XGB Series PLC Family

Environmental Specifications, all XGB Series Modules

Item			Specification	Reference			
Ambient Operating Temperature		nperature	0-55°C (32-131°F)				
Storage Temperature			-25–70°C (-13–158°F)	_			
Ambient Operating Humidity		nidity	5–95% relative humidity (non-condensing)				
Storage Humidity			5–95% relative humidity (non-condensing)				
	Occasional	5 ≤ f < 8.4 H		3.5 mm pulse width			
ion	Vibration	Frequency	$8.4 \le f < 150 \text{Hz}$	9.8 m/s ² (1G)			
Vibration ¹	Continuous	anba	$5 \le f < 8.4 \text{ Hz}$	1.75 mm pulse width			
	Vibration	F	$8.4 \le f < 150 \text{Hz}$	4.9 m/s ² (0.5G)	IEC61131-3-2		
		ı	Peak Acceleration	147 m/s² (15G)			
Shock	Shocks Duratio		Duration 11ms				
			Pulse Wave Type	Half-sine (3 times each direction per each axis)			
93	Square Wave Impulse Noise		oulse Noise	1,500VAC 900VDC	LS Electric standard		
	Electrostatic Discharge		charge	Voltage: 4kV (contact discharge)	IEC61131-3-2 IEC61000-4-2		
Noise Resistance	Radiated Electromagnetic Field Noise		magnetic Field	80–1,000 MHz, 10 V/m	IEC61131-3-2 IEC61000-4-3		
e Re	e ut	Classification Power Supply		Voltage			
loise	Isie			2kV			
<	Fast Transient / Burst Noise		Digital/Analog Input/Output Communication Interface	1kV	IEC61131-3-2 IEC61000-4-4		
Enviro	Environment			Free from corrosive gases and excessive dust			
Attitude			Less than 2,000m				
Pollution Degree			Less than 2 (see note 2)				
Coolii	Cooling Method			Air-cooling			

^{1 -} Vibration of 10 times each direction (X, Y, and Z)

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^{2 -} Normally only nonconductive pollution occurs. Temporary conductivity caused by condensation is to be expected.



XGB Series PLC Family

Available I/O Modules

		XGB Series I/O Modul	es						
Part Number	Price	Description	Digital Input	Digital Output	Analog Input	Analog Output	Motion	Bus Coupler Compatible	Smart Link Required
		Digital			_				
XBE-DC08A	\$61ey:	LS Electric XGB discrete input module, 8-point, 24 VDC, sinking/sourcing, 1 common(s), 8 point(s) per common. Removable terminal block included.	✓					✓	
XBE-DC16A	\$;;5]4]:	LS Electric XGB discrete input module, 16-point, 24 VDC, sinking/sourcing, 1 common(s), 16 point(s) per common. Removable terminal blocks included.	✓					✓	
XBE-DC16B	\$;5]4?:	LS Electric XGB discrete input module, 16-point, 12-24 VDC, sinking/sourcing, 1 common(s), 16 point(s) per common. Removable terminal blocks included.	✓					✓	
XBE-DC32A	\$;;05]4,:	LS Electric XGB discrete input module, 32-point, 24 VDC, sinking/sourcing, 1 common(s), 32 point(s) per common. Requires XTB-40H terminal block and C40HH-xxSB-XBI cable.	✓					√	✓
XBE-AC08A	\$;5]50:	LS Electric XGB discrete input module, 8-point, 120 VAC, 2 common(s), 4 point(s) per common. Removable terminal blocks included.	✓					✓	
XBE-RY08A	\$61eu:	LS Electric XGB relay output module, 8-point, 125 VDC/250 VAC, (8) Form A, 1 common(s), 8 point(s) per common, 2A/point, 5A/common. Removable terminal block included.		√				√	
XBE-RY08B	\$;05]51:	LS Electric XGB relay output module, 8-point, 125 VDC/250 VAC, (8) Form A, 8 isolated common(s), 1 point(s) per common, 2A/point. Removable terminal blocks included.		✓				✓	
XBE-RY16A	\$;05]52:	LS Electric XGB relay output module, 16-point, 125 VDC/250 VAC, (16) Form A, 2 isolated common(s), 8 point(s) per common, 2A/point, 5A/common. Removable terminal blocks included.		/				1	
XBE-TN08A	\$61ev:	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.		√				✓	
XBE-TN16A	\$;5]54:	LS Electric XGB discrete output module, 16-point, 12-24 VDC, sinking, 1 common(s), 16 point(s) per common, 0.5A/point, 2A/common. Removable terminal blocks included.		√				✓	
XBE-TN32A	\$;05]55:	LS Electric XGB discrete output module, 32-point, 12-24 VDC, sinking, 1 common(s), 32 point(s) per common, 0.2A/point, 2A/common. Requires XTB-40H terminal block and C40HH-xxSB-XBI cable.		✓				√	1
XBE-TP08A	\$61ex:	LS Electric XGB discrete output module, 8-point, 12-24 VDC, sourcing, 1 common(s), 8 point(s) per common, 0.5A/point, 2A/common. Removable terminal blocks included.		√				✓	
XBE-TP16A	\$;5]56:	LS Electric XGB discrete output module, 16-point, 12-24 VDC, sourcing, 1 common(s), 16 point(s) per common, 0.5A/point, 2A/common. Removable terminal blocks included.		✓				✓	
XBE-TP32A	\$;05]57:	LS Electric XGB discrete output module, 32-point, 12-24 VDC, sourcing, 1 common(s), 32 point(s) per common, 0.2A/point, 2A/common. Requires XTB-40H terminal block and C40HH-xxSB-XBI cable.		/				√	1
XBE-DN32A	\$;05]53:	LS Electric XGB discrete combo module, Input: 16-point, 24 VDC, sinking/sourcing, Output: 16-point, 12-24 VDC, sinking, 0.2A/point, 2A/common. Requires XTB-40H terminal block and C40HH-xxSB-XBI cable.	1	/				✓	✓
XBE-DR16A	\$061e#:	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.	√	✓				√	
		Motion							
XBF-PN04B	\$;;05!,5:	LS Electric XGB 4-axis positioning module, EtherCAT Master, 1 high-speed input point(s), sinking/line driver (differential), 1-channel, differential and single-ended encoder input(s), (1) Ethernet 100Base-TX (RJ45) port(s). For use with LS Electric XEM-DxxxHx PLCs.					√		
XBF-PN08B	\$;;05!,6:	LS Electric XGB 8-axis positioning module, EtherCAT Master, 1 high-speed input point(s), sinking/line driver (differential), 1-channel, differential and single-ended encoder input(s), (1) Ethernet 100Base-TX (RJ45) port(s). For use with LS Electric XEM-DxxxHx PLCs.					✓		
XBF-HO02A	\$;05]5e:	LS Electric XGB counter input module, 200 kHz maximum switching frequency, 2 high- speed input point(s), 5-24 VDC, sinking, 2-channel, single-ended encoder input(s), 2 high-speed output point(s), 5-24 VDC, sinking, external 24 VDC required.					√	√	√
XBF-HD02A	\$;;05]5f:	LS Electric XGB counter input module, 500 kHz maximum switching frequency, 2 high-speed input point(s), 5-24 VDC, sinking, 2-channel, differential encoder input(s), 2 high-speed output point(s), 5-24 VDC, sinking, external 24 VDC required.					√	√	√

Note: See "Smart Link I/O System" on page tLSE-131 for the XTB-40H terminal block and cables. See "XGB PLC Replacement Terminals" on page tLSE-149 for replacement removable terminal blocks.

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