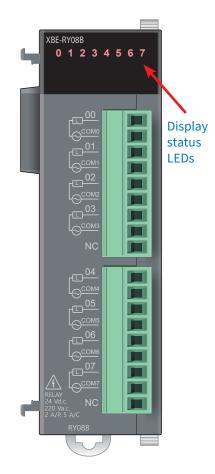


For the latest prices, please check AutomationDirect.com.

XGB Digital Modules

XBE-RY08B Digital Output Module

Part Number	Price	Classification	Description	Drawing				
<u>XBE-RY08B</u>	\$95.00	Digital Output	LS Electric XGB relay output module, 8-point, 125 VDC/250 VAC, (8) Form					
General Sp	ecifications	XBE-RY08B						
Output Point		8 point						
Insulation Meth	nod		Relay insulation					
Rated Load Vo	ltage	24VDC (resistive load) / 220VAC (COSΨ=1)						
Rated Load Cu	rrent		2A					
Minimum Load Current	Voltage/		5VDC / 1mA					
Maximum Load	l Voltage		250VAC, 124VDC					
Off-leakage Cu	rrent	0.1 mA (220VAC, 60Hz)						
Maximum On/C	Off Frequency	3,600 times/hour						
Over Voltage P	rotection	None						
	Mechanical	20 million times or more						
		Rated	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						
	2.000.7007	200VAC / 1A, 240VAC / 0.5 A (COSV=0.35) 100,000 times or more						
			24VDC / 1A, 100VDC / 0.1 A (L/R=7ms) 100,000 times or more					
Response	Off → Of		10ms or less					
Time	$On \rightarrow Of$	F	12ms or less					
Common Meth	od		1 point / COM					
Proper Cable Size		Standard cab	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				
<u>XBE-RY08B</u>	Input: %IX0.z.0 – %IX0.z.63 Output: %QX0.z.0 – %QX0.z.63	%QX0.z.0 – %QX0.z.7				

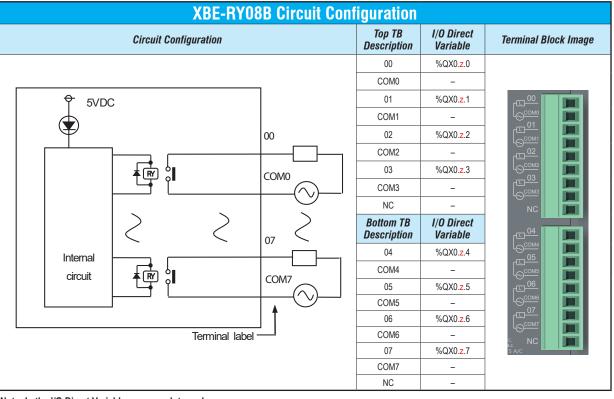
"z" denotes the module slot (2 to 8).

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



XGB Digital Modules

XBE-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 Storage Humidity		umidity 5–95% relative humidity (non-condensing)					
			5–95% relative humidity (non-condensing)				
_	Occasional	$5 \le f < 8.4 \text{ Hz}$ $8.4 \le f < 150 \text{Hz}$ $5 \le f < 8.4 \text{ Hz}$ $5 \le f < 8.4 \text{ Hz}$		3.5 mm pulse width			
lion	Vibration			9.8 m/s ² (1G)			
Vibration ¹	Continuous	nbə.	$5 \leq f < 8.4 \text{ Hz}$	1.75 mm pulse width			
И	Vibration	Fr	8.4 ≤ f < 150Hz	4.9 m/s ² (0.5G)	IEC61131-3-2		
Shocks Peak Acceleration Duration Pulse Wave Type		Peak Acceleration		147 m/s ² (15G)			
		Duration		11ms			
		Pulse Wave Type	Half-sine (3 times each direction per each axis)				
	Square Wave Impulse Noise		oulse Noise	1,500VAC 900VDC	LS Electric standard		
ē	Electrostatic Discharge		charge	Voltage: 4kV (contact discharge)	IEC61131-3-2 IEC61000-4-2		
Voise Resistance	Radiated Electromagnetic Field Noise		magnetic Field	80–1,000 MHz, 10 V/m	IEC61131-3-2 IEC61000-4-3		
e Re	e at		Classification	Voltage			
loise	Iois	Power Supply		2kV			
<	Fast Transient / Burst Noise		Digital/Analog Input/Output Communication Interface	1KV	IEC61131-3-2 IEC61000-4-4		
Environment			Free from corrosive gases and excessive dust				
Attitude			Less than 2,000m				
Pollution Degree		Less than 2 (see note 2)		-			
Cooling Method			Air-cooling				

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

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 Output	Motion	Bus Coupler Compatible	Smart Lini Required
		Digital						
XBE-DC08A	\$59.00	LS Electric XGB discrete input module, 8-point, 24 VDC, sinking/sourcing, 1 common(s), 8 point(s) per common. Removable terminal block included.	\checkmark				\checkmark	
XBE-DC16A	\$70.00	LS Electric XGB discrete input module, 16-point, 24 VDC, sinking/sourcing, 1 common(s), 16 point(s) per common. Removable terminal blocks included.	\checkmark				\checkmark	
XBE-DC16B	\$78.00	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.	\checkmark				\checkmark	
XBE-DC32A	\$97.00	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.	~				\checkmark	\checkmark
XBE-AC08A	\$88.00	LS Electric XGB discrete input module, 8-point, 120 VAC, 2 common(s), 4 point(s) per common. Removable terminal blocks included.	\checkmark				~	
XBE-RY08A	\$80.00	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.		\checkmark			\checkmark	
XBE-RY08B	\$95.00	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.		\checkmark			\checkmark	
<u>XBE-RY16A</u>	\$110.00	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.		\checkmark			\checkmark	
XBE-TN08A	\$60.00	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.		\checkmark			~	
XBE-TN16A	\$78.00	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.		\checkmark			~	
XBE-TN32A	\$109.00	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.		\checkmark			\checkmark	\checkmark
XBE-TP08A	\$62.00	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.		\checkmark			\checkmark	
XBE-TP16A	\$88.00	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.		\checkmark			\checkmark	
XBE-TP32A	\$93.00	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.		\checkmark			\checkmark	\checkmark
XBE-DN32A	\$172.00	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.	\checkmark	\checkmark			\checkmark	\checkmark
XBE-DR16A	\$97.00	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.	\checkmark	\checkmark			\checkmark	
		Motion						
XBF-PN04B	\$350.00	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.				\checkmark		
XBF-PN08B	\$395.00	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.				\checkmark		
XBF-HO02A	\$176.00	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.				\checkmark	\checkmark	\checkmark
XBF-HD02A	\$253.00	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.				\checkmark	\checkmark	\checkmark

Note: See "Smart Link I/O System" on page tLSE-125 for the XTB-40H terminal block and cables. See "XGB PLC Replacement Terminals" on page tLSE-124 for replacement removable terminal blocks.

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