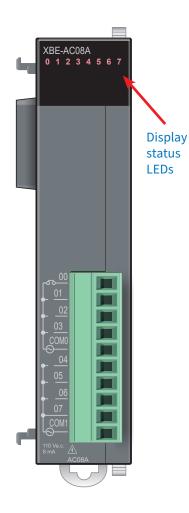


XGB Digital Modules

XBE-AC08A Digital Input Module

Part Number	Price	Classification	Description	Drawing
XBE-AC08A	\$88.00	Digital Input	LS Electric XGB discrete input module, 8-point, 120 VAC, 2 common(s), 4 point(s) per common. Removable terminal blocks included.	PDF

General S	pecifications	XBE-AC08A				
Input Point		8 point				
Insulation Met	hod	Photocoupler isolation				
Rated Input Vo	oltage	100-120 VAC (+10/-15%), 50/60 Hz (±Hz) (distortion rate <5%)				
Rated Input Co	d Input Current 8mA at 60Hz, 7mA at 50Hz					
Operation Volt	age Range	82–132 VAC				
On Voltage/Cu	rrent	80VAC or higher, 5mA or higher 50/60 Hz				
Off Voltage/Cu	rrent	30VAC or lower, 1mA or lower 50/60 Hz				
Input Resistance		12kΩ 60Hz, 15kΩ 50Hz				
Response	Off → On	20ms or less (100VAC 50/60 Hz)				
Time	On → Off	25ms or less (100VAC 50/60 Hz)				
Insulation Pressure		560VACrms / 3 Cycle (2000m altitude)				
Insulation Res	istance	Photocoupler isolation 100-120 VAC (+10/-15%), 50/60 Hz (±Hz) (distortion rate <5%) 8mA at 60Hz, 7mA at 50Hz 82–132 VAC 80VAC or higher, 5mA or higher 50/60 Hz 30VAC or lower, 1mA or lower 50/60 Hz 12kΩ 60Hz, 15kΩ 50Hz 20ms or less (100VAC 50/60 Hz) 25ms or less (100VAC 50/60 Hz) 560VACrms / 3 Cycle (2000m altitude)				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						
Proper Cable S	Size	0.05–1.5 mm ² (30–16 AWG), Cu wire, PCB terminal block				
		30mA (when all point On)				
,		Input On, LED On				
External Conn	ection Method	10-point terminal block connector				
Weight		70g				



XBE-AC08A - 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.

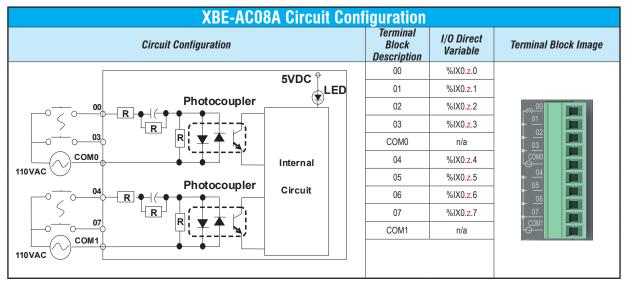
Part Number	PLC Memory Allocation	Actual I/O Direct Variable
XBE-AC08A	Input: %IX0.z.0 – %IX0.z.63 Output: %QX0.z.0 – %QX0.z.63	% X0.z.0 – % X0.z.7

[&]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. <u>Digital Module Setup</u>

XGB Digital Modules

XBE-AC08A Digital Input 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			midity	5–95% relative humidity (non-condensing)	_		
Storage Humidity			5–95% relative humidity (non-condensing)				
	Occasional		$5 \le f < 8.4 \text{ Hz}$	3.5 mm pulse width			
ion	Vibration	Frequency	$8.4 \le f < 150 Hz$	9.8 m/s² (1G)			
Vibration ¹	Continuous	nba	$5 \le f < 8.4 \text{ Hz}$	1.75 mm pulse width			
	Vibration	Fr	8.4 ≤ f < 150Hz	4.9 m/s ² (0.5G)	IEC61131-3-2		
	'		Peak Acceleration	147 m/s ² (15G)			
Shocks		Duration		11ms			
	Pulse Wave Type		Pulse Wave Type	Half-sine (3 times each direction per each axis)			
	Square Wave Impulse Noise		oulse Noise	1,500VAC 900VDC	LS Electric standard		
يو	Electrostatic Discharge			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		
. Re	9 J	Lassification Power Supply Digital/Analog Input/Output Communication Interface		Voltage			
loise	sie			2kV	IEC61131-3-2		
~	Fast Trar			Input/Output Communication 1kV			
Enviro	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)

www.automationdirect.com LS PLC tLSE-16

^{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	Digital Output		Analog Output	Motion	Bus Coupler Compatible	Smart Link Required
		Digital		,	1	,			
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.	✓					✓	
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.	✓					✓	
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.	✓					✓	
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.	✓					✓	✓
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.	/					✓	
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.		✓				✓	
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.		✓				✓	
XBE-RY16A	\$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.		√				✓	
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.		/				√	
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.		✓				√	
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.		✓				✓	✓
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.		/				✓	
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.		/				✓	
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.		√				✓	✓
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.	✓	/				✓	/
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.	/	/				1	
		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.					1		
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.					√		
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.					√	✓	✓
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.					✓	✓	✓

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.

Continued on next page