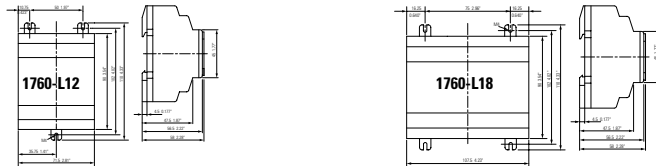


Dimensions



Specifications

Controllers						
Catalog Number	Inputs	Outputs	Line Power	Real-Time Clock	Display and Keypad	Analog
1760-L12AWA	8 (120/240V ac)	4 (relay) ³	120/240V ac	Yes	Yes	No
1760-L12AWA-NC				No	Yes	
1760-L12AWA-ND				Yes	No	
1760-L18AWA-EX ¹	12 (120/240V ac)	6 (relay) ³	24V dc	Yes	Yes	2 (0 to 10V dc) ⁵
1760-L12BWB				Yes	Yes	
1760-L12BWB-NC				No	Yes	
1760-L12BWB-ND	Yes	No				
1760-L18BWB-EX ¹	12 (24V dc) ²	6 (relay) ³	12Vdc	Yes	Yes	
1760-L12DWD	8 (12V dc) ²	4 (relay) ³		Yes	Yes	
Expansion Modules						
Catalog Number	Inputs	Outputs	Line Power			
1760-IA12XOV6 ⁶	12 (120/240V ac)	6 (relay) ³	120/240V ac			
1760-IB12XOB8 ⁶	12 (24V dc) ²	8 (transistor) ⁴	24V dc			
Physical Specifications						
Specification	1760-L12xxx	1760-L18xxx	Notes:			
Weight	7 oz. (200g)	10.6 oz. (300g)	1 EX = suitable for use with expansion modules			
Ambient Temperature, (operation)	-25°C to +55°C (-13°F to +131°F)		2 Current sinking			
Storage Temperature	-40°C to +70°C (-40°F to +158°F)		3 Isolated			
Operating Humidity	5% to 95%, non-condensing		4 Current sourcing			
Emitted Interference, Interference Immunity	EN 55011, EN 55022, Class B		5 Two digital inputs maybe used for analog			
Standards and Regulations Approvals	EN 50178, UL, CSA, CE, C-Tick		6 May be used with either: 1760-L18AWA-EX or 1760-L18BWB-EX			

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Pico™ Controller

Small, simple and flexible

Product Profile

Is it a PLC, or is it a smart relay? The Allen-Bradley Pico controller performs simple logic, timing, counting, and real-time clock operations. Splitting the difference between a timing relay and a low-end PLC, the Pico is ideal for relay replacement applications, simple control applications such as building and parking lot lighting, and applications in which cost is a primary design issue. The Pico was designed with ease-of-use in mind. All programming and data adjustments can be done via the on-board keypad and LCD display, or with Allen-Bradley's PicoSoft™ configuration software.

The Pico controller can be either DIN-rail or panel mounted, depending upon the needs of your application. Pico is available in 120V/240V ac as well as 12V and 24V dc versions — all with eight Amp relay outputs to drive a wide range of electrical components. The DC-powered Pico controllers have two inputs that can be used as either DC digital inputs or 0-10V analog inputs, giving you the flexibility to work with a wide variety of input signals. The Pico controller provides up to 38 I/O points when an I/O expansion module is connected to an 18-point controller.



Bringing Together Leading Brands in Industrial Automation

Allen-Bradley Parts



Pico Controller

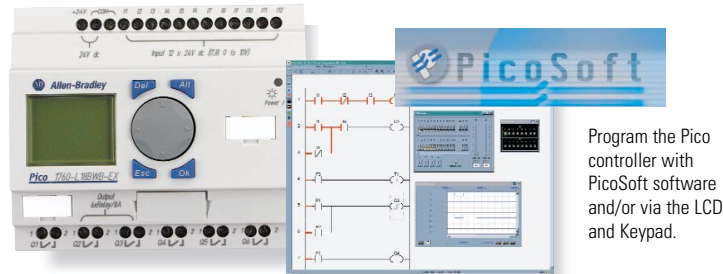
The Pico controller offers the ability to control more functions and larger applications with the addition of 12V dc controllers and expansion I/O modules (up to 38 I/O points). Selection, expansion possibilities, size and Allen-Bradley quality help make the Pico controller a popular choice for those who want to do more with greater ease. By switching from wiring and relays, to logic links, the Pico controller decreases the total cost of ownership while introducing many features and benefits to the process.

Smarter Than Your Average Relay

- Easier to use than a PLC**
 - No software required
 - Easy to program
- Even better than a single-board controller**
 - Standard, off-the-shelf product that is already developed
 - World-wide support and programming knowledge
- Intelligent relay replacement**
 - Changing system functions is a simple matter of reprogramming Pico. No rewiring necessary!
 - Cost effectively replaces 3-4 control relays and/or 1 timing relay
- Real-time clock functionality**
 - Programming control routines based on time-of-day or day-of-week is simple
- Permanent program retention**
 - Programs are stored in non-volatile EEPROM memory, and will not be lost in the event of a power failure
- Commissioning status display**
 - View the real-time analysis of the logic circuit
- Password security**
 - Control access to the program and parameters



Programming Ease



Applications

Machine Control
Commercial Lighting
Solar Cell Applications
Agriculture
Greenhouse
HVAC Systems
Vessel Control



KEY FEATURES AND BENEFITS

- Small size** — smaller than many relays, saving panel space and reducing system cost
- Simplicity** — performs basic PLC functions, such as logic, timing and counting. Any novice user can write simple programs or make data adjustments
- Expandability** — 18-point Pico controllers accommodate expansion I/O modules, providing up to 20 additional I/O points
- Programming ease** — no programming software to purchase. Use the available on-board LCD display and keypad for all programming and data changes, or download PicoSoft 3.0 when using non-display/keypad models, or when program simulation is desired
- Selection** — full featured controllers provide the flexibility needed for one-of-a-kind applications, while models without the on-board keypad, LCD display, or real-time clock, provide value-oriented options for basic or repeat applications
- Real-time clock** — control outputs based upon the time-of-day or day-of-week with this feature
- Analog inputs** — two 0-10V dc analog inputs are provided on DC controllers
- Controller line power** — 12V dc, 24V dc, or 120/240V ac versions available
- Relay outputs** — reduce panel space and system cost with high current relay outputs that eliminate interposing relays

