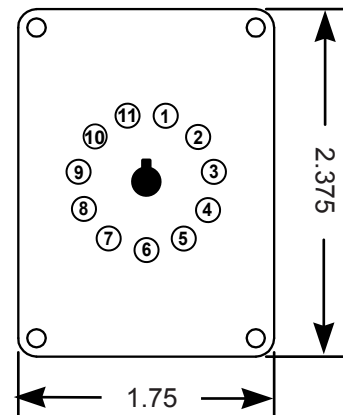
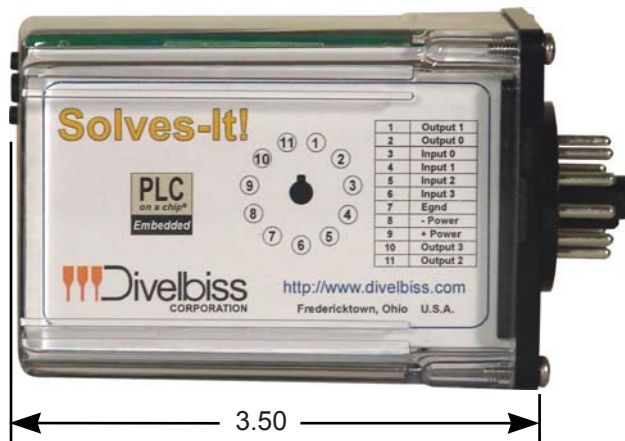


- ▶ Full Featured
- ▶ Small Footprint
- ▶ Fully Industrialized
- ▶ Digital I/O
- ▶ Reverse Polarity Protected
- ▶ LED Status Indicators
- ▶ High Speed Counter
- ▶ Analog Input Available
- ▶ Real Time Clock Available
- ▶ 11-pin Plug-in Construction
- ▶ EZ Ladder® Software Included



The Solves-It! series of programmable logic controllers provide a new solution where a small, yet versatile logic controller is required. Based on patented* PLC on a Chip® technology, the Solves-It! is easy to apply and program using the included PC based EZ Ladder software. Basic units feature digital I/O and/or a 10 VDC differential analog input. Enhanced units add two programmable push-buttons, a real time clock with battery back-up, and a four digit numeric display.

The Solves-It! controllers are ideal for small system control and monitor applications, particularly in instances where panel space is limited. Solves-It! mounts in any standard 11-pin octal base and requires only 1.75" of DIN rail space in the panel.



Typical applications include:

- ▶ Machine Control
- ▶ Compressor Control
- ▶ Engine Control
- ▶ Conveyor Systems
- ▶ Water Lift Stations
- ▶ Label Machines
- ▶ Screen Printers
- ▶ Pump Control
- ▶ Elevator Control
- ▶ Remote Monitoring
- ▶ Motor Control
- ▶ Valve Control

*Patent 7,299,099

Solves-It! Plug-in PLC

Hardware Selection Guide

Model Number:	SI-100/101	SI-110 ^{REV 2.0}	SI-200/201	SI-210 ^{REV 2.0}
Input Voltage:	10 - 24.5VDC	8 - 32VDC	10 - 24.5VDC	8 - 32VDC
INPUTS				
Digital:	4	Up to 4 <i>See Note 1</i>	4	Up to 4 <i>See Note 1</i>
Type:	Sourcing/Sinking	Sinking	Sourcing/Sinking	Sinking
Reverse Polarity Protected				
Analog:	no	0 to 10 volts	no	0 to 10 volts
Type:	n/a	differential	n/a	differential
Push Buttons:	no	no	2 Programmable	2 Programmable
Potentiometers:	no	2 Readable 10-bits	no	2 Readable 10-bits
High Speed Counter:	One (1) - 25 KHz Maximum Frequency, Optically Isolated - Count Up			
OUTPUTS				
Digital:	4	Up to 6 <i>See Note 1</i>	4	Up to 6 <i>See Note 1</i>
Type:	Sourcing SSR Outputs, Output Voltage = Input Power			
Range:	10 - 24.5VDC	8 - 32VDC	10 - 24.5VDC	8 - 32VDC @
Max. Current / Output:	300mA	500mA	300mA	500mA
LED INDICATORS (in addition to Watchdog LED)				
Programmable:	4	1	4	1
Pilot:	0	1 (For GP Output 5)	0	1 (For GP Output 5)
Numeric Display:	no	no	yes	yes
Real Time Clock	no	no	yes	yes
Mounting:	11-pin Octal Style Plug			
Memory:	64K Flash			
Operating Temperature:	0-60° C	-40-65° C	0-60° C	-40-65° C

Note 1: Four(4) of the six (6) total digital I/O available can be used for either an Input or an Output as determined by the EZ ladder Program. GPO4 & GPO5 are Outputs only.

Solves-It! Starter Kits - Each kit includes everything required to apply the Solves-It! Plug-in PLC.

Quick Start Kit (SK-xxx) contains one Solves-It! plug-in PLC as listed below:		PLUS one (1) each of the parts listed below:	
SK-100	one (1) SI-100 Solves-It! Plug-in PLC	SI-PGM	Solves-It! programming cable
SK-110	one (1) SI-110 Solves-It! Plug-in PLC	115-105328	DIN/panel mount screw terminal socket
SK-200	one (1) SI-200 Solves-It! Plug-in PLC	EZLDCD-02	EZ Ladder® Lite Software CD
SK-210	one (1) SI-210 Solves-It! Plug-in PLC		

Programming Accessories

Description	Divebiss Part #
EZ Ladder® Software	EZLDCD-01
Solves-It! programming Cable	SI-PGM

Optional Hardware Add-ons

Description	Divebiss Part #
24 VDC, 1.5a power supply - DIN rail mounted	130 - 105868
11-pin DIN/panel mount screw terminal socket	115 - 105328

Programming the Controller

The Divebiss Solves-It! plug-in PLCs program in Ladder Diagram using Divebiss EZ Ladder® software, a Ladder Diagram Development Platform. The EZ Ladder software parallels the IEC-61131 standard and provides an easy to use interface.

After a ladder diagram program is developed, it can be downloaded to the Solves-It! via the serial port. The program is stored on non-volatile FLASH memory and is automatically executed on power up. Once the download is complete, the controller is successfully programmed and begins executing the program.

Refer to the EZ Ladder User's Manual for more detail on creating ladder diagram programs, connecting to targets and downloading the program to targets. The manual can be downloaded from our website. <http://www.divebiss.com>

NOTE: Specifications are subject to change without notice.

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