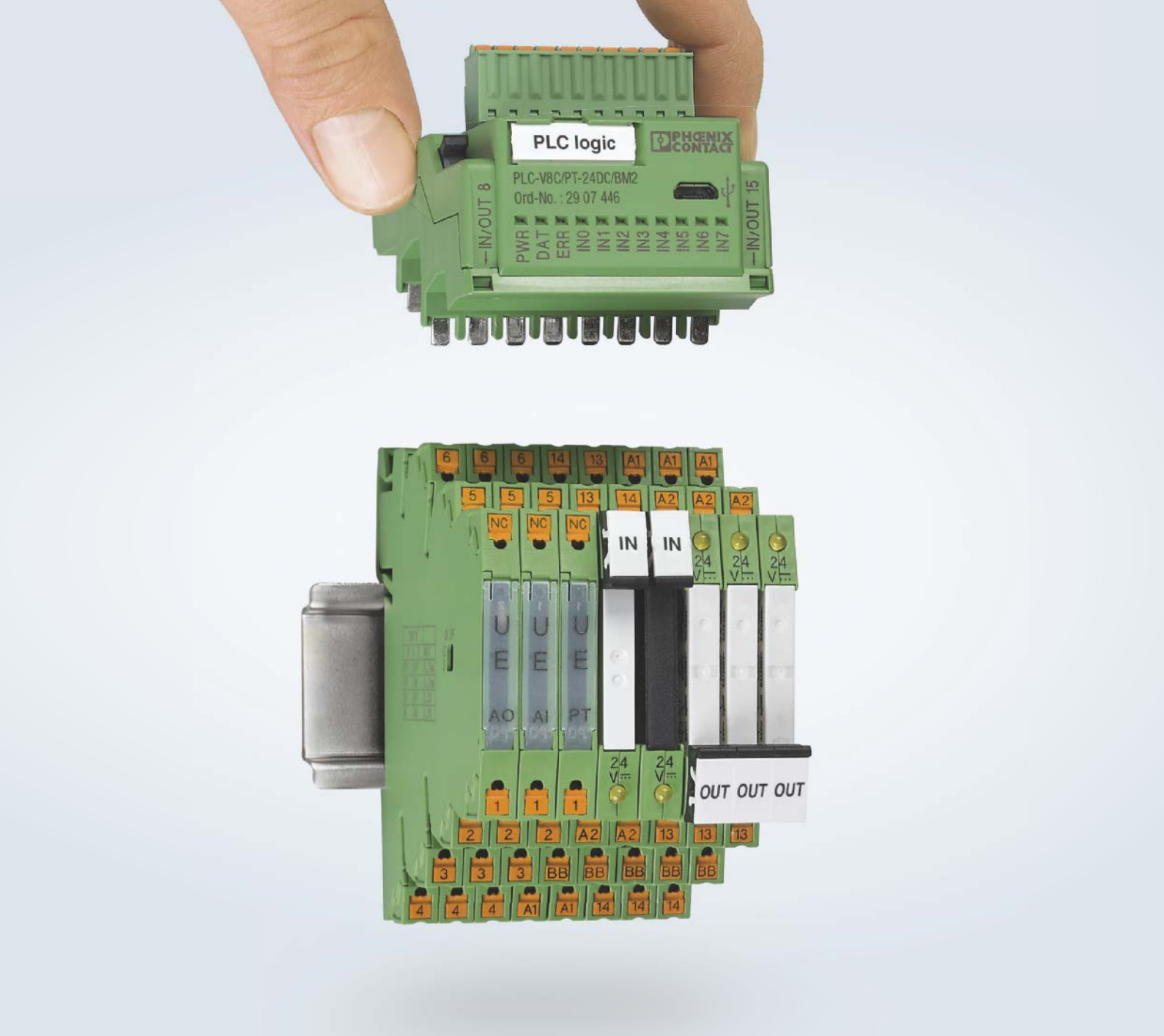


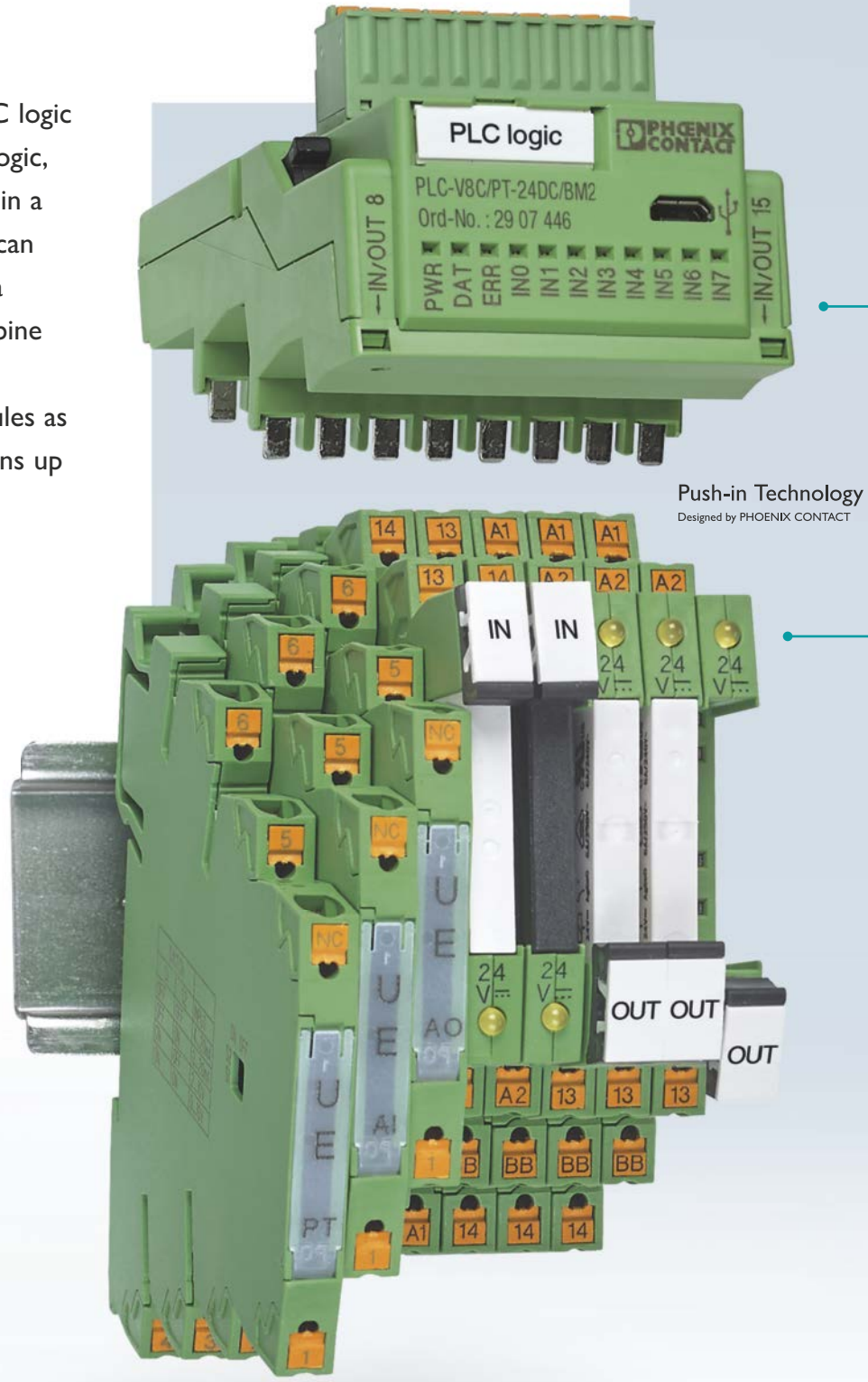
Programmable logic relay system

Extremely compact control and switching

PHOENIX CONTACT
INSPIRING INNOVATIONS

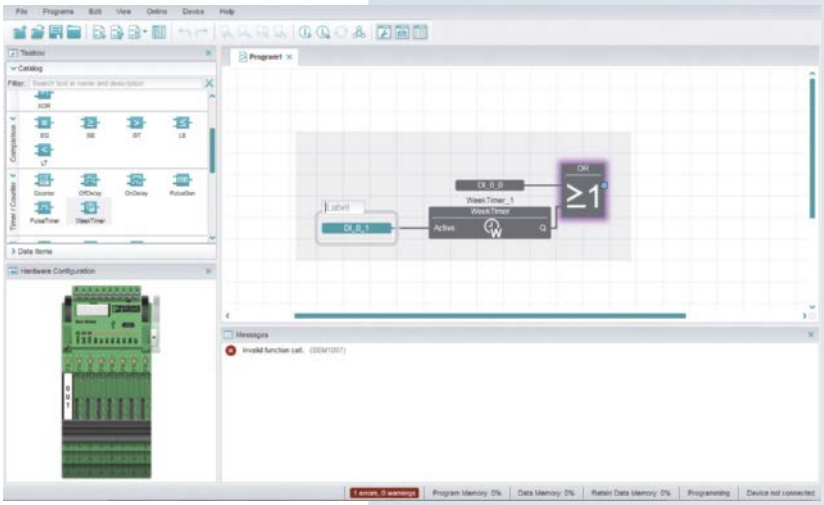
Extremely compact control and switching

On the logic module market, the PLC logic relay system is the first to combine logic, interface, and field connection levels in a single solution. This means that you can switch and control I/O signals using a single compact system. You can combine the new PLC logic module with the corresponding relay and analog modules as required. The modular structure opens up a wealth of applications.

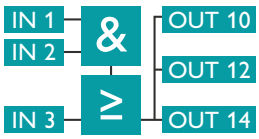


Advantages at a glance

Carry out small automation tasks and benefit from the advantages of pluggable switching elements. You can implement your projects quickly with the aid of the free LOGIC+ software.



Extremely compact control



Flexible combination

Equip each relay channel individually as an input or output with an overall width of just 50 mm. Depending on the application requirements, relay or analog modules are available for this.

Easy project implementation

LOGIC+ is the intuitive software which allows you to implement your projects quickly.

High system availability

thanks to pluggable switching elements.

Wireless operation and monitoring

For wireless access to process data between the logic module and the mobile end device, the Bluetooth adapter, combined with the PLC logic app, is available to you.

The system at a glance

You can flexibly extend the system, thanks to the wide choice of different modules. In addition to the basic module, extension modules are also available for more complex tasks. Eight relay and analog modules can be freely selected for each basic module. Up to 48 I/O signals can be acquired and switched with one basic module and two extension modules.

The components in detail

Basic module

PLC logic processes 16 I/O signals with one basic module at an overall width of just 50 mm.

Extension modules

The basic module and the extension module are connected via integrated connectors – no tools required.

Relay and analog modules

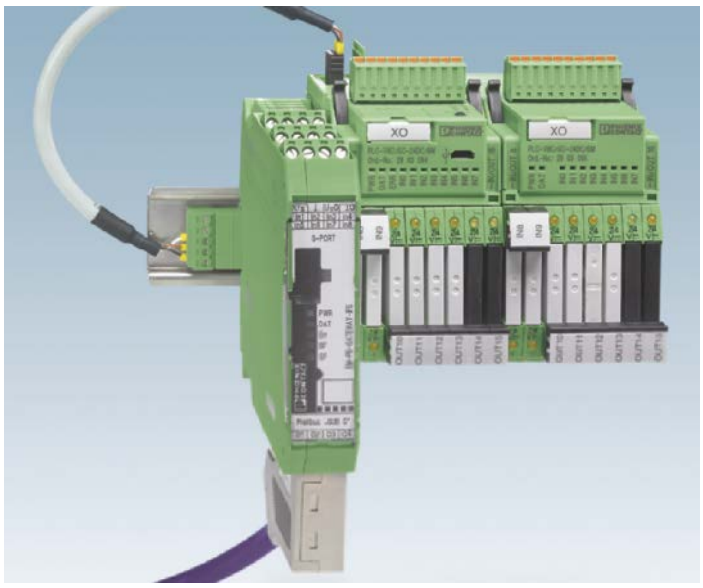
The modular design with the widest variety of relay and analog modules enables channel-specific assembly.

PLC logic app

Easy and quick parameter adjustments and monitoring using an app. Thanks to the corresponding Bluetooth adapter, you can access the process data quickly and wirelessly.

Memory module

Save programs or easily copy them to other devices.



Integration into common bus systems

PLC logic is integrated into various networks via optional adaptable fieldbus gateways. This enables bidirectional communication with a higher-level controller for remote control as well as diagnostics and visualization. Gateways are available for transmitting data via PROFIBUS DP, RS-232, RS-485, Modbus/TCP, DeviceNet™, CANopen, PROFINET, and EtherNet/IP. A connection to Inline controllers is also possible.

Intuitive programming using LOGIC+

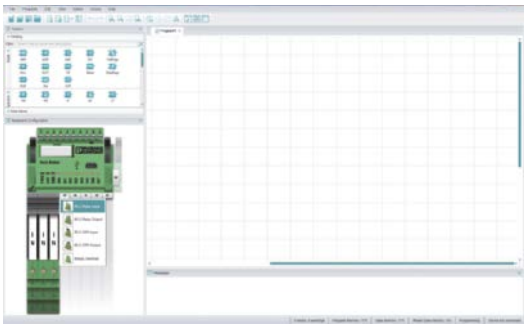
LOGIC+ is the intuitive software which allows you to implement your projects quickly.

Select the right components for your task. The easy handling helps when it comes to configuration and startup of the products. The programs created can be simulated offline on the PC and tested online during operation.

Easy programming – step by step

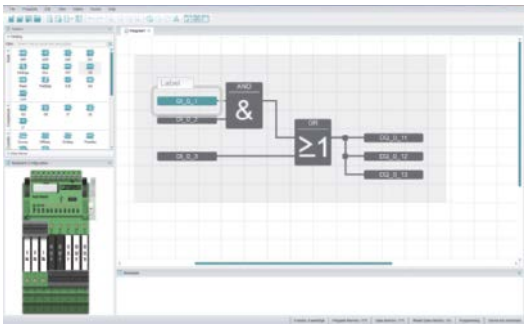
1. Configuration in the hardware editor

Each channel can be configured as an input or output with relay or analog modules. Benefit from clear assignment of the inputs and outputs, thanks to the graphical representation of the hardware connections.



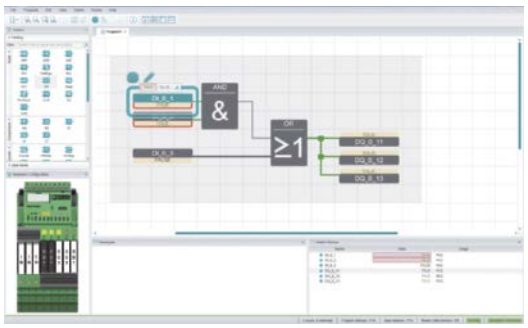
2. Creating a program

Insert the inputs and outputs and the logic modules into the logic diagram via drag & drop. The software is intuitive and simplifies your work. You do not need any in-depth programming knowledge.



3. Simulating the new configuration

Use the simulation function to easily check and simulate the programmed contents.
The screen display shows all the states currently possessed by your application. Possible conflicts are indicated.



Download now

Download the free LOGIC+ software and a number of complete programs for applications from our website.

Did you know? LOGIC+ is ideal for testing PLC logic in advance without hardware.

For additional information on the LOGIC+ software, simply enter the web code in the search field on our website.

Web code: #0139

Wireless operation and monitoring with the PLC logic app

For wireless access to process data between the logic module and the mobile end device, the PLC logic app combined with the Bluetooth adapter is available to you.

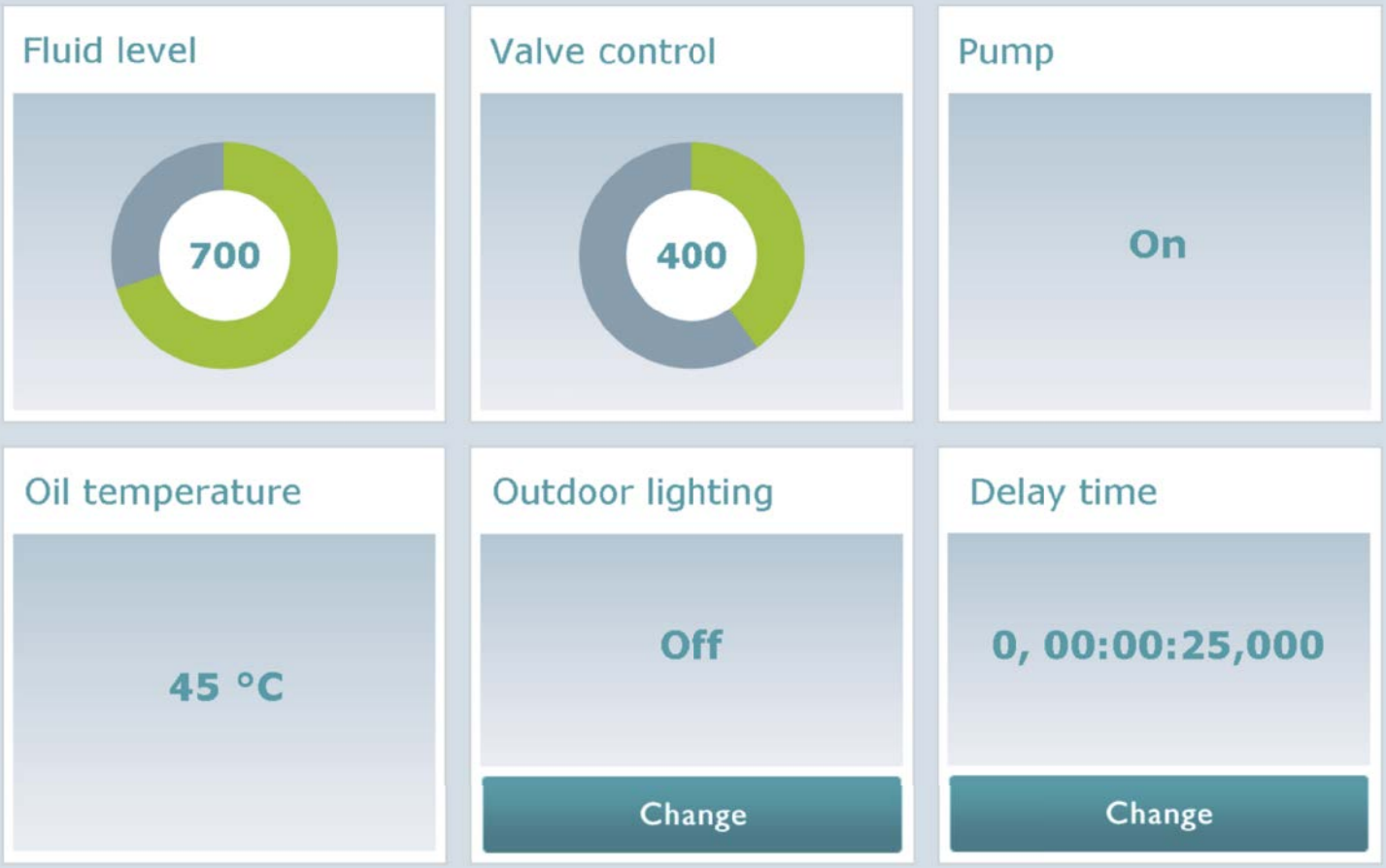
Once the app is installed on your smartphone or tablet, you can use it to adjust parameters of the logic modules. The app can be used for operation and monitoring, as it can access all program variables.

The Bluetooth connection enables efficient monitoring of multiple logic modules, with just one visualization device.

Display examples

The visualization view is created via the editor of the web server integrated in the logic modules. It is possible to access all program variables:

- Inputs and outputs (digital, analog)
- Flags
- Numerical values
- Time values



PHOENIX CONTACT
PLC logic

The app is available for free in the Apple App Store.

Communication with the PLC logic app is accomplished using a Bluetooth adapter.

Laden im App Store

Easy wiring with PLC logic

PLC logic combines the strengths of established relay technology with logic functions. In contrast to conventional logic modules, the modular design with a variety of relay modules enables channel-specific configuration. On the field side, sensors and actuators can be connected directly to the relay.

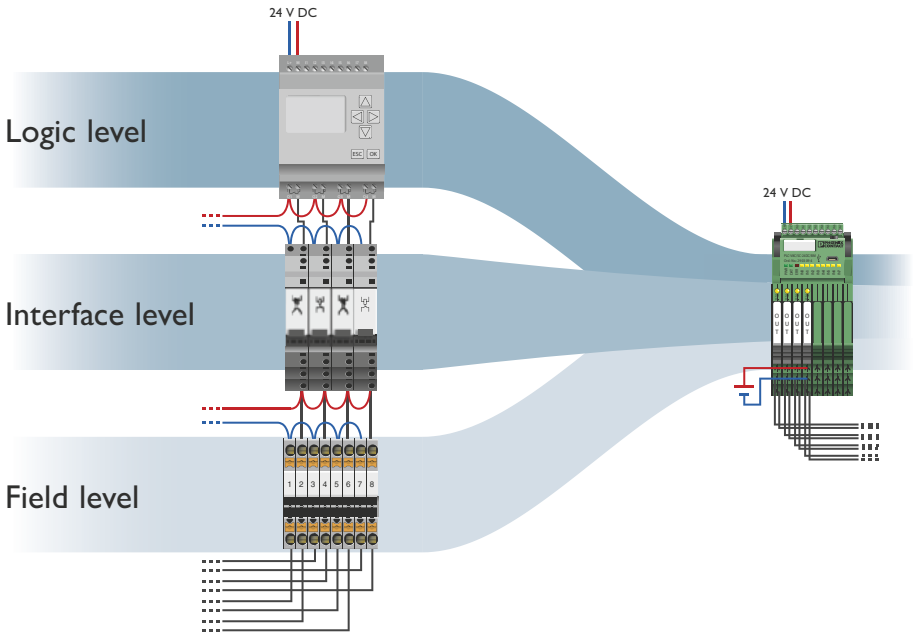
Your advantages:

- Fast, clear wiring
- Easy to install
- Cost and space saving
- Electrically isolated inputs and outputs

Reduce your wiring costs with PLC logic

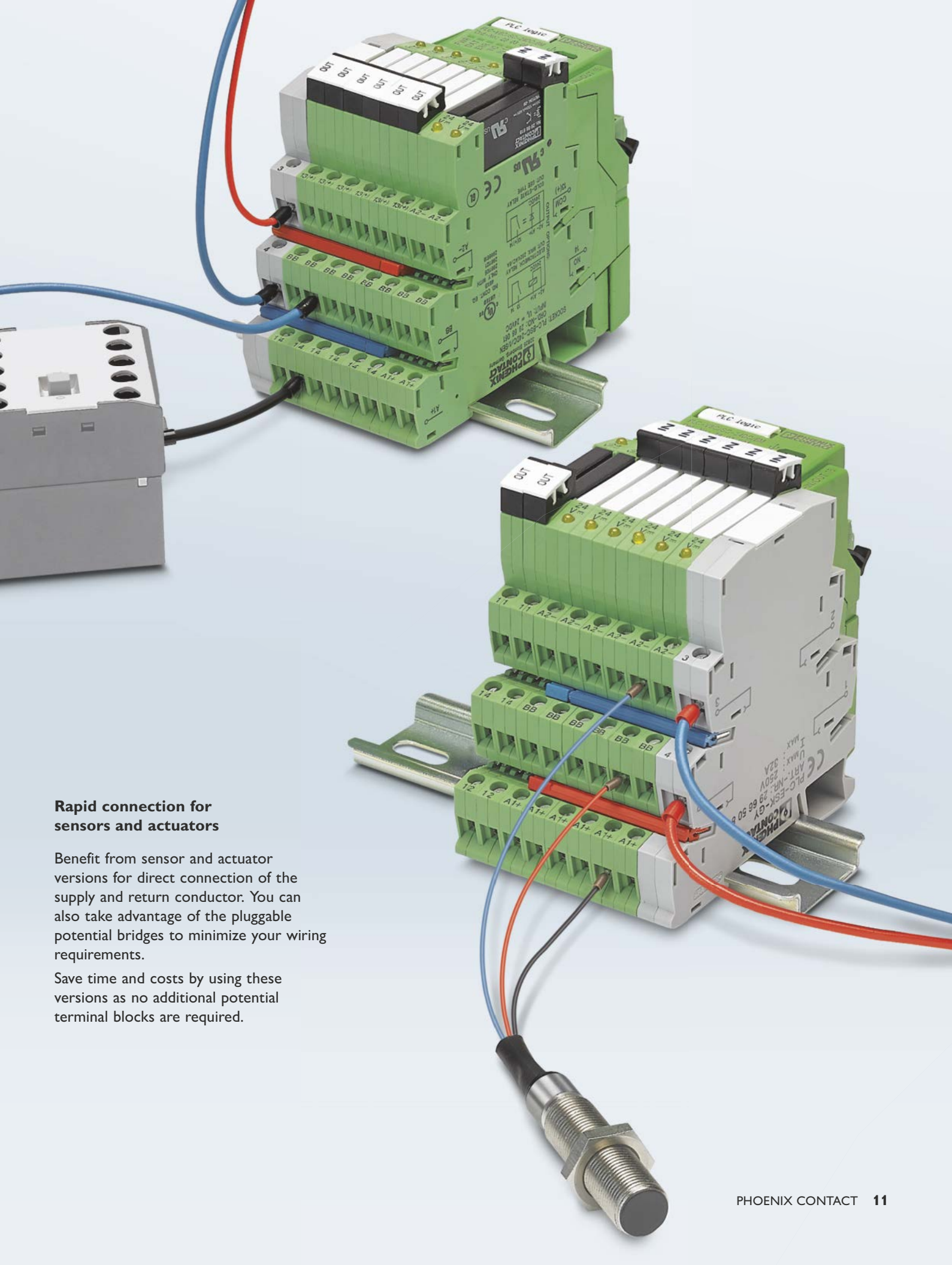
With conventional logic modules, wiring is complex and time consuming. To avoid the disadvantages of permanently soldered relays, additional relay modules are often used in front of the inputs and outputs.

PLC logic replaces conventional switching and control devices and reduces the wiring required.



Conventional wiring

Wiring with PLC logic



Rapid connection for sensors and actuators

Benefit from sensor and actuator versions for direct connection of the supply and return conductor. You can also take advantage of the pluggable potential bridges to minimize your wiring requirements.

Save time and costs by using these versions as no additional potential terminal blocks are required.

Logic modules

The logic modules have eight integrated digital inputs, two of which can be configured as analog inputs (0–10 V). A further eight channels can be configured with corresponding relay or analog modules as digital inputs or outputs. The modules can be programmed with the intuitive LOGIC+ software.

		Connection/designation		Order No.
	**Stand-alone module** With 16 I/Os, cannot be extended, connection to PC via micro USB socket. Integrated real-time clock, accommodates external IFS-CONFSTICK memory module.	Push-in connection	PLC-V8C/PT-24DC/SAM2	2907443
		Screw connection	PLC-V8C/SC-24DC/SAM2	2907445
	**Basic module** With 16 I/Os, can be extended up to a maximum of 48 I/Os. Connection to PC via micro USB socket. Integrated real-time clock. Accommodates external IFS-CONFSTICK memory block. Optional connection to fieldbus gateways	Push-in connection	PLC-V8C/PT-24DC/BM2	2907446
		Screw connection	PLC-V8C/SC-24DC/BM2	2907447
	**Extension module** With 16 I/Os, for extending the basic module. A maximum of two extension modules can be connected to each basic module.	Push-in connection	PLC-V8C/PT-24DC/EM	2905137
		Screw connection	PLC-V8C/SC-24DC/EM	2903095

Relay modules

Relay output		Connection/designation		Order No.
	1 changeover contact, 6 A, 250 V AC/DC	Push-in connection	PLC-RPT-24DC/21	2900299
		Screw connection	PLC-RSC-24DC/21	2966171
	1 changeover contact, 50 mA, 36 V DC, gold contact	Push-in connection	PLC-RPT-24DC/21AU	2900306
		Screw connection	PLC-RSC-24DC/21AU	2966265
	1 N/O contact, 6 A, 250 V AC/DC, actuator type	Push-in connection	PLC-RPT-24DC/1/ACT	2900312
		Screw connection	PLC-RSC-24DC/1/ACT	2966210
	1 N/O contact with switch, 6 A, 250 V AC/DC	Push-in connection	PLC-RPT-24UC/1/S/H	2900328
		Screw connection	PLC-RSC-24UC/1/S/H	2982236

Solid-state relay output		Connection/designation		Order No.
	100 mA, 3 V DC ... 48 V DC	Push-in connection	PLC-OPT-24DC/48DC/100	2900352
		Screw connection	PLC-OSC-24DC/48DC/100	2966728
	3 A, 3 V DC ... 33 V DC	Push-in connection	PLC-OPT-24DC/24DC/2	2900364
		Screw connection	PLC-OSC-24DC/24DC/2	2966634
	750 mA, 24 V AC ... 253 V AC	Push-in connection	PLC-OPT-24DC/230AC/1	2900369
		Screw connection	PLC-OSC-24DC/230AC/1	2967840
	3 A, 3 V DC ... 33 V DC, actuator type	Push-in connection	PLC-OPT-24DC/24DC/2/ACT	2900376
		Screw connection	PLC-OSC-24DC/24DC/2/ACT	2966676
	750 mA, 24 V AC ... 253 V AC, actuator type	Push-in connection		
		Screw connection	PLC-OSC-24DC/230AC/1/ACT	2967947
	1 A, 12 V DC ... 300 V DC	Push-in connection	PLC-OPT-24DC/300DC/1	2900383
		Screw connection	PLC-OSC-24DC/300DC/1	2980678
	10 A, 3 V DC ... 33 V DC	Push-in connection	PLC-OPT-24DC/24 DC/10/R	2900398
		Screw connection	PLC-OSC-24DC/24DC/10/R	2982702
	500 mA, 3 V DC ... 48 V DC, electronic changeover contact	Push-in connection	PLC-OPT-24DC/48DC/500/W	2900378
		Screw connection	PLC-OSC-24DC/48DC/500/W	2980636
	TTL, 50 mA, 5 V DC	Push-in connection	PLC-OPT-24DC/TTL	2900363
		Screw connection	PLC-OSC-24DC/TTL	2982728

Relay input		Connection/designation		Order No.
	Input voltage 24 V DC	Push-in connection	PLC-RPT-24DC/1AU/SEN	2900313
		Screw connection	PLC-RSC-24DC/1AU/SEN	2966317
	Input voltage 120 V AC/DC	Push-in connection	PLC-RPT-120UC/1AU/SEN	2900314
		Screw connection	PLC-RSC-120UC/1AU/SEN	2966320
	Input voltage 230 V AC/DC	Push-in connection	PLC-RPT-230UC/1AU/SEN	2900315
		Screw connection	PLC-RSC-230UC/1AU/SEN	2966333
	Input voltage 5 V DC (basic terminal block without relay)	Push-in connection		
		Screw connection	PLC-BSC-5DC/1/SEN	2980267
	Relay for 5 V DC basic terminal block	Push-in connection		
		Screw connection	REL-MR-4,5DC/21AU	2961370

Solid-state relay input		Connection/designation		Order No.
	Input voltage 24 V DC	Push-in connection	PLC-OPT-24DC/V8C/SEN	2908172
		Screw connection	PLC-OSC-24DC/V8C/SEN	2908173
	Input voltage 120 V AC/DC	Push-in connection	PLC-OPT-120UC/V8C/SEN	2908174
		Screw connection	PLC-OSC-120UC/V8C/SEN	2908175
	Input voltage 230 V AC/DC	Push-in connection	PLC-OPT-230UC/V8C/SEN	2908176
		Screw connection	PLC-OSC-230UC/V8C/SEN	2908177

Dummy or reserve		Connection/designation		Order No.
	Basic terminal block output	Push-in connection	PLC-BPT-24DC/21	2900445
		Screw connection	PLC-BSC-24DC/21	2966016
	Basic terminal block input	Push-in connection	PLC-BPT-24DC/1/SEN	2900262
		Screw connection	PLC-BSC-24DC/1/SEN	2966061

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Analog modules

The analog modules can be connected to stand-alone modules and basic modules. No signals from the analog discs can be processed with the extension modules.

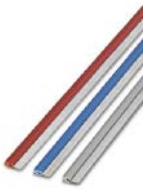
Analog input discs		Connection/designation		Order No.
	Input signal: 0...10 V, 2...10 V, 0...20 mA, 4...20 mA	Screw connection	PLC-ASC-UI-IN	2906916
		Push-in connection	PLC-APT-UI-IN	2906917
	Input signal: Pt 100 or Pt 1000 sensor	Screw connection	PLC-ASC-PT100-IN	2906918
		Push-in connection	PLC-APT-PT100-IN	2906919

Analog output discs		Connection/designation		Order No.
	Output signal: 0...10 V, 2...10 V, 0...20 mA, 4...20 mA	Screw connection	PLC-ASC-UI-OUT	2906920
		Push-in connection	PLC-APT-UI-OUT	2906921

Starter kit

		Designation	Order No.
	Starter kit Contents: Stand-alone logic module (SAM2) and eight relay output terminals with Push-in connection technology, programming cable	PLC-LOGIC-STARTERKIT3	2909916

Accessories

		Designation	Order No.
	Memory block	IFS-CONFSTICK	2986122
	Programming cable	CAB-USB A/MICRO USB B/2,0M	2701626
	T-BUS connecting cable	PLC-V8C/CAB/TBUS/0,3M	2905263
	Bluetooth adapter for wireless access to process data between logic module and mobile end device	IFS-BT-PROG-ADAPTER	2905872
	Feed-in terminal for supplying power to the bridge potentials	PLC-ESK GY	2966508
	Continuous plug-in bridges 500 mm long, can be cut to length, for potential distribution	FBST 500-PLC RD	2966786
		FBST 500-PLC BU	2966692
		FBST 500-PLC GY	2966838

IFS gateways			Order No.
	For PROFIBUS DP	EM-PB-GATEWAY-IFS	2297620
	For RS-232	EM-RS232-GATEWAY-IF	2901526
	For RS-485	EM-RS485-GATEWAY-IFS	2901527
	For Modbus/TCP	EM-MODBUS-GATEWAY-IFS	2901528
	For DeviceNet™	EM-DNET-GATEWAY-IFS	2901529
	For CANopen®	EM-CAN-GATEWAY-IFS	2901504
	For PROFINET	EM-PNET-GATEWAY-IFS	2904472
	For EtherNet/IP™	EM-ETH-GATEWAY-IFS	2901988
	For Inline Controller	IB IL IFS-MA-PAC	2692720

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Printed in Germany

IF 06-13.000.L3
MNR 52005426/2017-02-15/02

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