

Pluto Safety PLC Programmable Controller

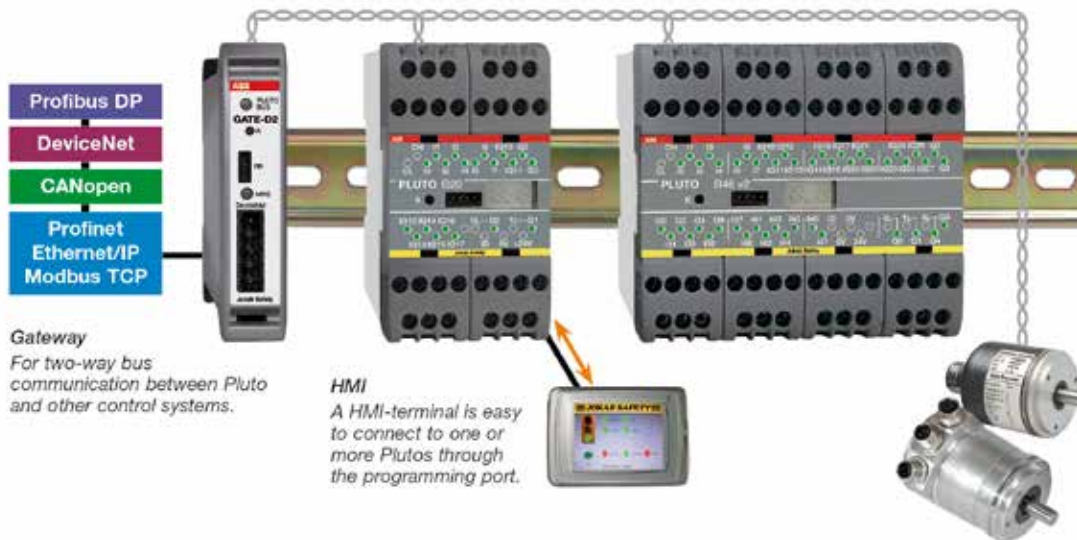
Inspired by industry

The key difference between Pluto safety PLC and conventional safety PLCs is that while conventional controllers use a “supervisor-subordinate” methodology, the Pluto safety PLC uses an “all-supervisor” concept. Since all Plutos are “supervisor” units, they can see each others’ inputs and outputs.

Using this concept, each Pluto can make decisions about its own immediate safety environment—enabling simple communication and easy alterations of the safety system. Further, Pluto uses the Vital Dynamic Pulse Technology to allow up to ten devices to be connected to a single point of I/O—making it one of the most functional and modular systems on the market.

Unparalleled value

- Flexible and modular units allow you to do much more with less
- Reduces wiring and panel space
- Pluto Manager software included with purchase and technical support available
- Simple and powerful programming interface and instruction set standard
- Easily applied to any industry
- Offers extremely fast response time —less than 55 ms



Simplify the design of and changes to safety systems.

Pluto is an “all-supervisor” safety PLC concept that simplifies the design of safety systems and still achieves the highest level^① of safety. Since each Pluto is a “supervisor” unit and can see the other Plutos’ inputs and outputs, the concept enables simple communication, programming and changes to the safety system.

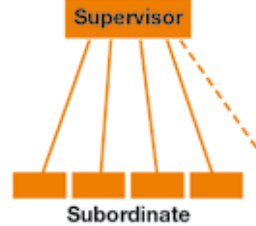
With the use of a “Gateway” device, a Pluto can communicate with other bus systems and thereby form part of a larger network. Gateway units are available for several different bus systems—i.e. Profibus, CANOpen, DeviceNet, Profinet, Ethernet/IP and Modbus TCP. With a Pluto AS-i both safety subordinates and standard subordinates can be handled.

Pluto offers a economic solution for both single machines and for major machine systems.

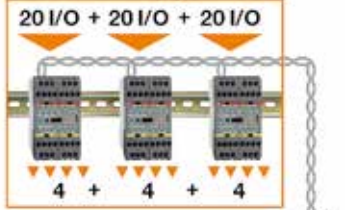
ABB Jokab Safety Solution with All-Supervisor



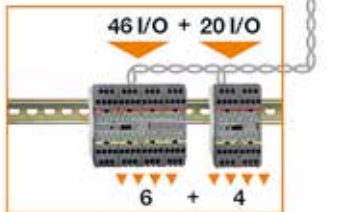
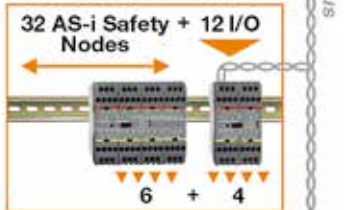
Conventional Safety PLC



Pluto All-Supervisor



Pluto AS-i



Supervise unlimited safety devices

Most safety devices on the market can be connected directly to Pluto units. by using dynamic signals with sensors from ABB JOKAB SAFETY, only one input is needed to achieve the highest level* of safety, compared to two inputs for other manufacturers’ PLCs.

It is also possible to connect up to ten sensors in series to a single input on Pluto and still achieve the highest level^① of safety. For example, non-contact Eden sensors, safety guard mats and Tina emergency stop buttons can all be connected in series to a single Pluto input. Even mechanical switches can be connected to the “dynamic” safety circuit using Jokab’s various Tina adapters.

Pluto also has I/O connections that can be used as both inputs and outputs.



Light Beams



Light Curtains and Grids



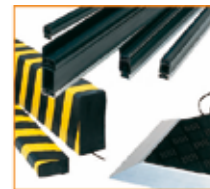
3-Position Devices



Gate Switches and Sensors



Two-Hand Controls



Strips, Mats and Bumpers



Emergency Stop Buttons

^① See web site for detailed list of third party approvals for standards and regulations.

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