Pluto Safety PLC Programmable Controller
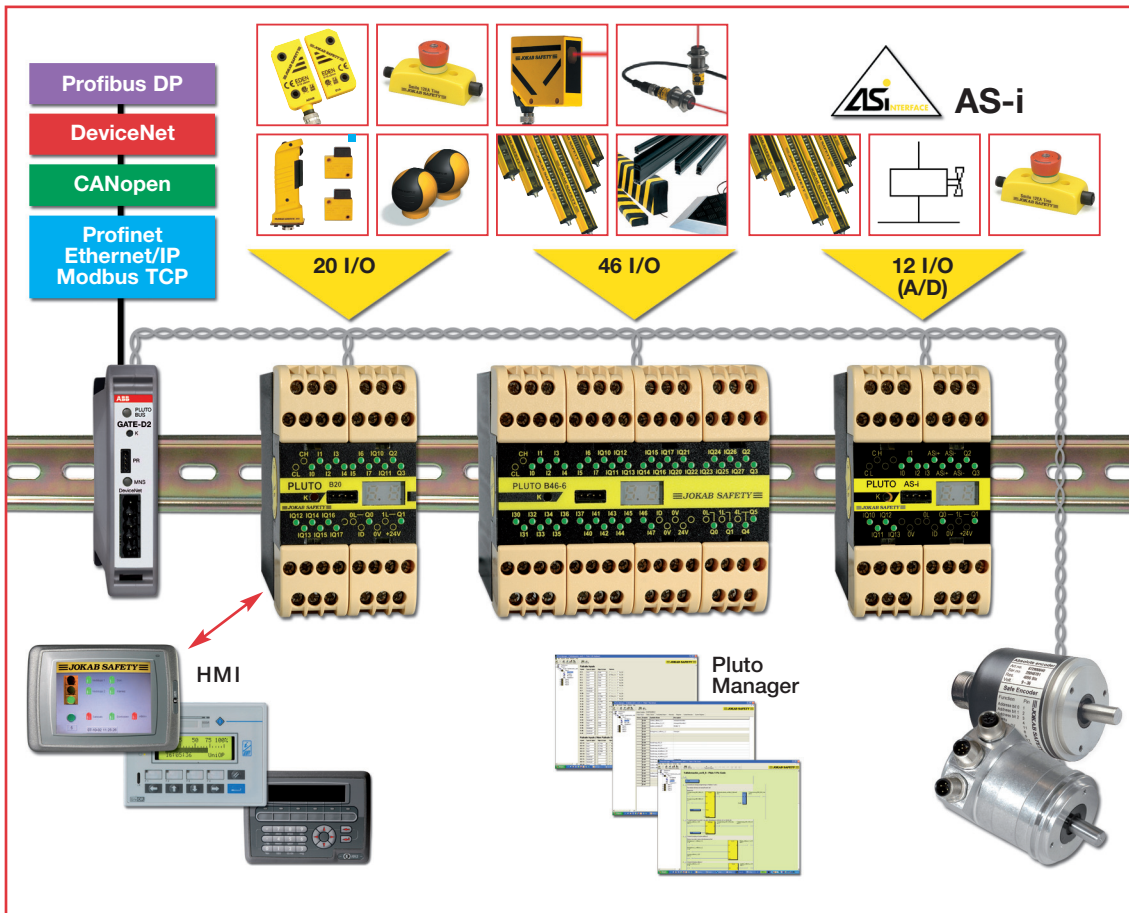
Inspired by Industry

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.
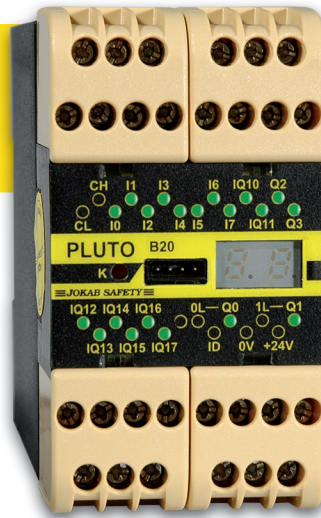
Unparalleled Value

- 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

VISION + VERSATILITY = VALUE

Profibus DP

DeviceNet

CANopen

Profinet Ethernet/IP Modbus TCP

AS-i

20 I/O

46 I/O

12 I/O (A/D)

GATE-D2

PLUTO B20

PLUTO B46-6

PLUTO AS-i

HMI

Pluto Manager

*see website for detailed list of third party approvals for standards and regulations

JOKAB SAFETY

A MEMBER OF THE ABB GROUP

Simplify the Design of and Changes to Safety Systems

VISION + VERSATILITY = VALUE

Pluto is an "all-supervisor" safety PLC concept that simplifies the design of safety systems and still achieves the highest level* 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.

Jokab Safety Solution with All-Supervisor

- Pluto All-Supervisor
- Pluto All-Supervisor
- Pluto All-Supervisor

Conventional Safety PLC

Supervisor

Subordinate

Pluto All-Supervisor

20 I/O + 20 I/O + 20 I/O

4 + 4 + 4

Pluto AS-i

31 AS-i Safety + 12 I/O Nodes

4

46 I/O + 20 I/O

6 + 4

safe bus
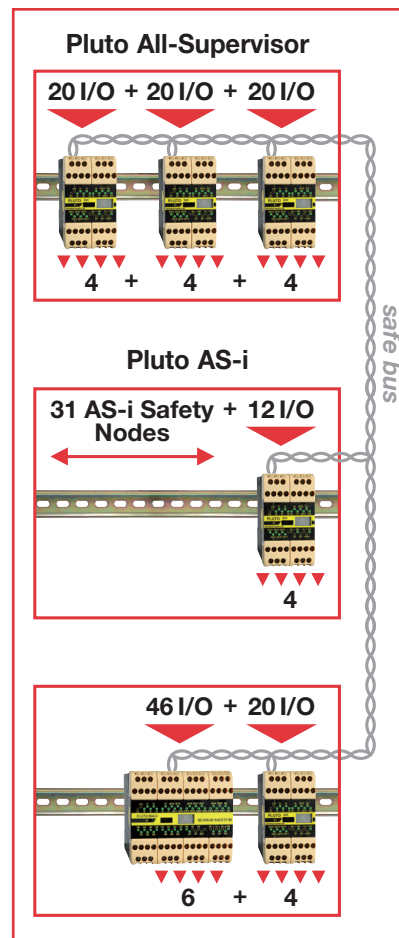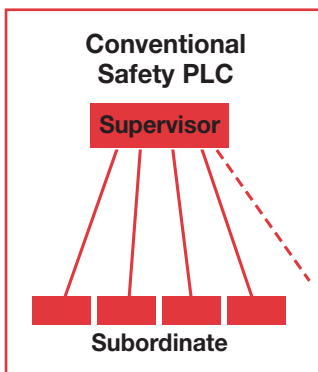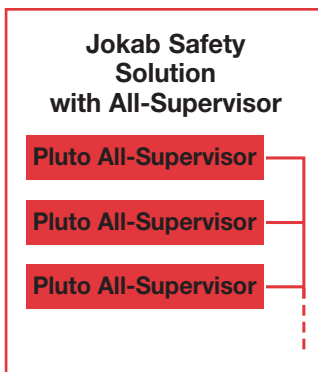
Supervise Unlimited Safety Devices

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* 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.

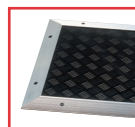| Light Beams | Light Curtains | 3-Position Devices | Safety Sensors and Switches | 2-Hand Devices | Emergency Stop Buttons | Safety Strips and Bumpers | Safety Guard Mats |

see website for detailed list of third party approvals for standards and regulations