

Pluto D20 Safety PLC With Analog Inputs

Inspired by industry

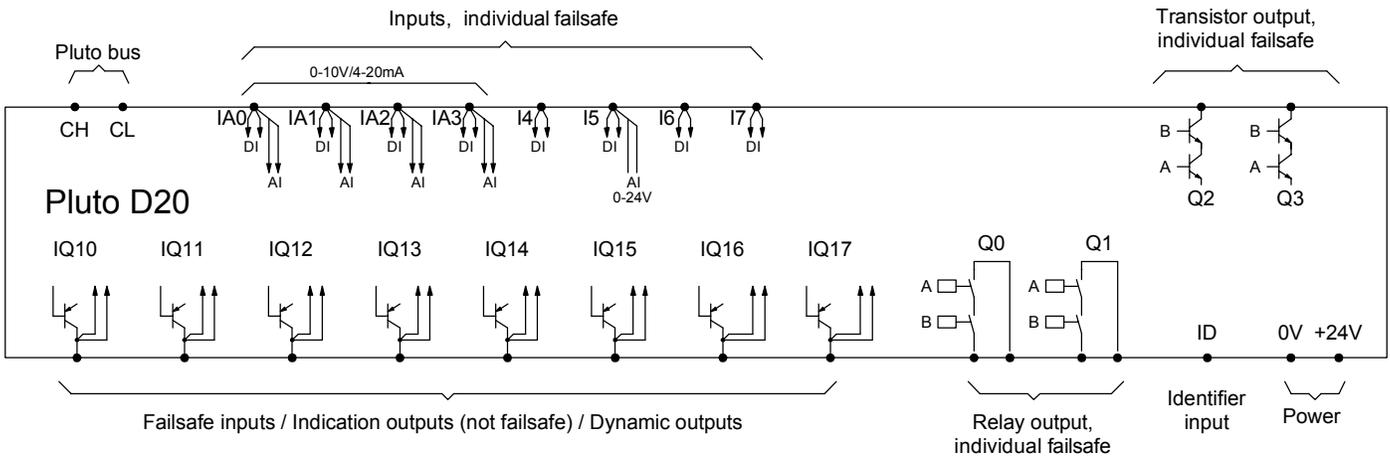
ABB JOKAB SAFETY has expanded the range of Pluto Safety PLC modules! The new unit, Pluto D20, is a 45mm wide module with 4 safe analog inputs. The I/O configuration is the same as for the Pluto B20, but with the added feature that 4 of the inputs can be used as either ordinary safe inputs or as safe analog inputs 0-10V or 4-20mA.

This feature allows Pluto to be used in application where proximity sensors, temperature sensors, pressure and flow sensor monitoring is required for the Category 4/SIL3 PLc protection of personal around hazardous machinery. For applications to reach SIL 3 PLc two sensors in parallel, with one analog input and one function block each, must be used.

The key difference between Pluto Safety PLCs 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 Pluto’s are “supervisor” units, they can see each others’ inputs and outputs.

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 55ms



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[Ⓞ] 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.

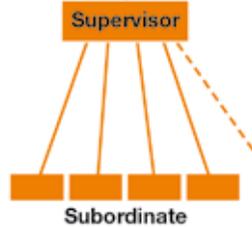
With the use of a “Gateway” device, a Pluto can communicate with other bus systems and thereby form part of a larger network. Gateway units are available for several different bus systems—i.e. Profibus, CANOpen, DeviceNet, Profinet, Ethernet/IP and Modbus TCP. With a Pluto AS-i both safety subordinates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

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

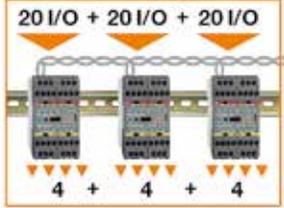
ABB Jokab Safety Solution with All-Supervisor



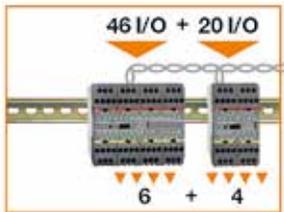
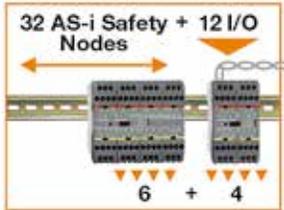
Conventional Safety PLC



Pluto All-Supervisor



Pluto AS-i



srtq ejes

1SXU172024L0201 June 2013

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.



[Ⓞ] See web site for detailed list of third party approvals for standards and regulations.

ABB Inc.

ABB JOKAB SAFETY Products
6471 Commerce Drive
Westland, MI US 48185
Phone: 888-282-2123
Fax: 800-565-9302
Web: www.jokabsafety.com

Power and productivity
for a better world™

