

SmartGuard 600 Safety Controller



The SmartGuard 600 safety controller is a general purpose programmable safety controller designed for safety applications that require some complex logic allowing for more advanced safety functionality. It features 16 safety-rated inputs, 8 safety-rated outputs, 4 pulse test sources, and a DeviceNet connection that supports both standard and CIP Safety communication. Configuration and programming is accomplished through the built-in USB port.

Since the SmartGuard 600 safety controller is a safety master on DeviceNet, you can use any Rockwell Automation Guard I/O to expand the number of safety devices the SmartGuard 600 can control. It can also perform safety interlocking between a GuardLogix, GuardPLC or other SmartGuard safety controllers. And because CIP Safety is simply an extension of DeviceNet, other devices such as standard PLCs and HMIs can read data out of the SmartGuard 600 for system level interlocking, diagnostics and troubleshooting.

Use RSNetWorx for DeviceNet to program the SmartGuard 600 and configure the DeviceNet network. Once inside RSNetWorx, you can launch an editor that will allow you to write function block programs for the SmartGuard 600. No additional programming software is needed! With ten safety application instructions plus another dozen logic and timing instructions, you can write powerful, yet simple safety control programs.



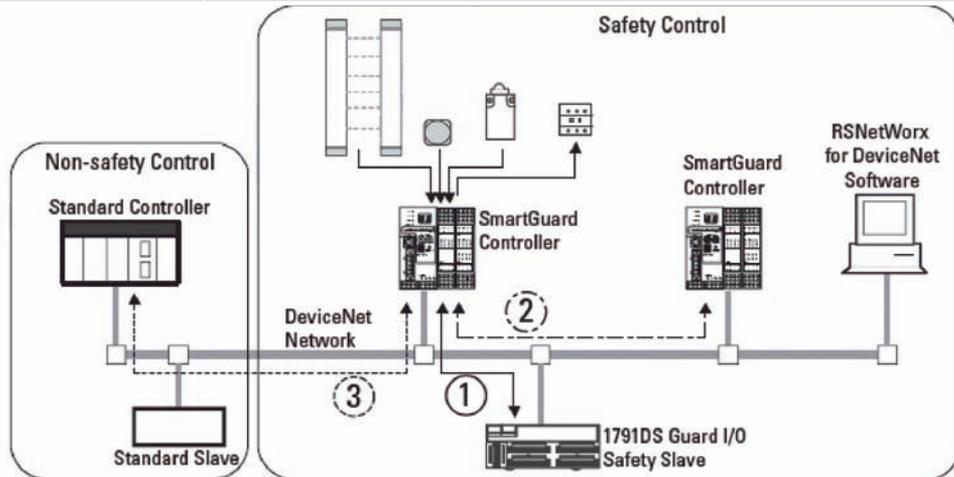
The SmartGuard 600 can be used in safety applications including:

- E-Stop
- Light Curtain
- Safety Gate
- Two Hand Control
- Multi-zone Control
- Perimeter Guarding



Cat. No.	Product Description
536-714	SmartGuard 600 Safety Controller
536-691	RSNetWorx for DeviceNet Software, version 8.00 or later

Product Design Networking on DeviceNet Networks



The SmartGuard 600 controller can function simultaneously as a DeviceNet safety master, DeviceNet safety slave, and DeviceNet standard slave (see network illustration).

- As a DeviceNet safety master (1), the SmartGuard 600 controller can control up to 32 Guard I/O modules. These are 1791DS and 1732DS modules.
- As a DeviceNet safety slave (2), the SmartGuard 600 controller looks like distributed safety I/O to a safety master. Another SmartGuard safety master can read and write safety data to the SmartGuard slave controller. This lets you perform distributed safety control through the interlocking of multiple controllers via CIP Safety on DeviceNet networks.
- As a DeviceNet standard slave (3), the SmartGuard 600 controller can look like a standard distributed I/O module and respond to explicit messages so that standard third party DeviceNet masters read and write information to and from the SmartGuard 600 controller. This facilitates coordination with your standard PLC application, including displaying safety system information on an HMI.



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