OMRON

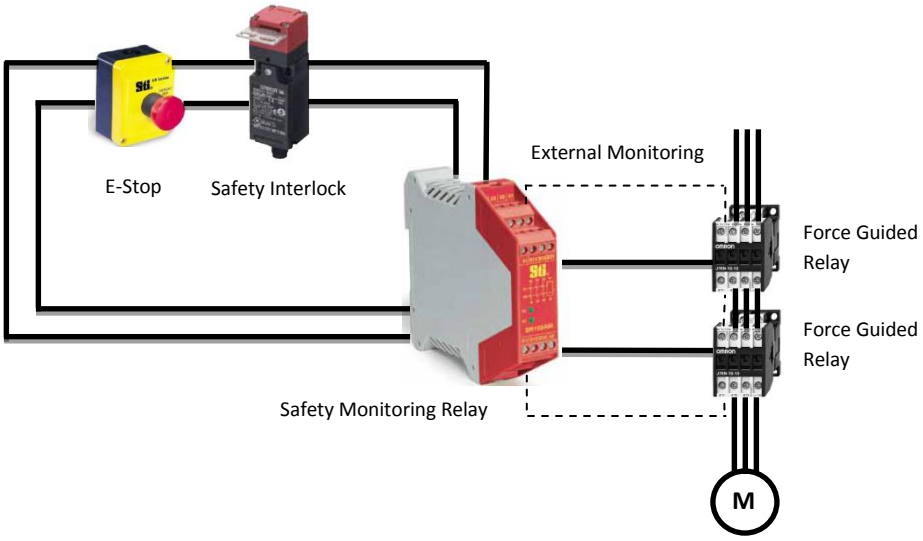
STI SAFETY, TECHNOLOGY & INNOVATION

Programmable Safety Controllers
G9SP Application Guide

SpeedSPEC www.sti.com G9SP

DOES THIS LOOK LIKE YOUR SAFETY CIRCUIT TODAY?

Basic Dual-Channel Safety Circuit. E-stop and Interlock kill all hazardous energy upon operation



Safety Compliance:

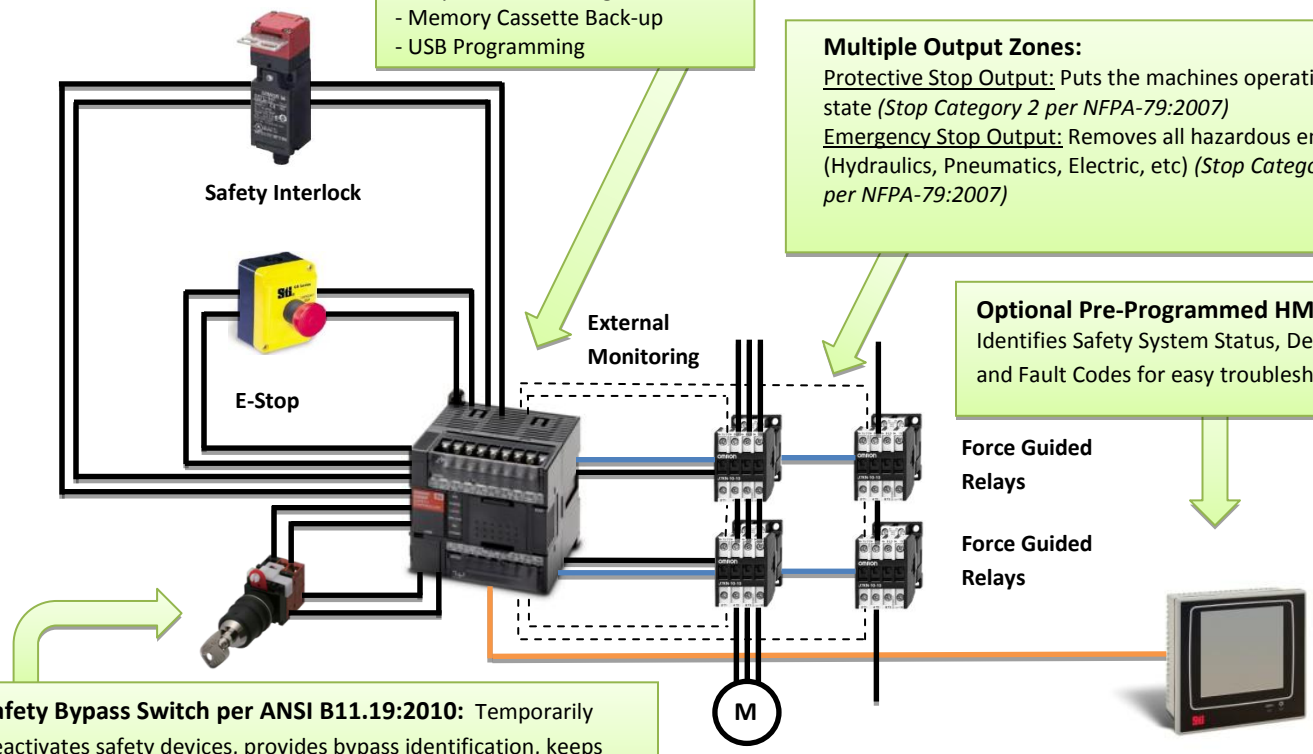
- Category 3 circuit per EN-954-1
- Control Reliable per ANSI B11.19:2010
- Stop Category 0 per NFPA-79:2007

INCREASE YOUR SAFETY, DIAGNOSTICS, AND PRODUCTIVITY USING A G9SP

Hardware Features:
- Easy troubleshooting LEDs
- Memory Cassette Back-up
- USB Programming

Multiple Output Zones:
Protective Stop Output: Puts the machines operation in a safe state *(Stop Category 2 per NFPA-79:2007)*
Emergency Stop Output: Removes all hazardous energy (Hydraulics, Pneumatics, Electric, etc) *(Stop Category 0 or 1 per NFPA-79:2007)*

Optional Pre-Programmed HMI:
Identifies Safety System Status, Device Status, and Fault Codes for easy troubleshooting



Safety Bypass Switch per ANSI B11.19:2010: Temporarily deactivates safety devices, provides bypass identification, keeps E-stops active, and times out after X Minutes.

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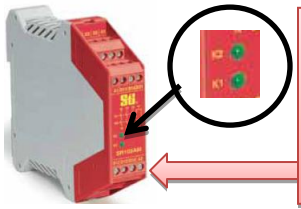
3 REASONS WHY TO USE THE G9SP

1) REDUCTION OF INVENTORY

OR

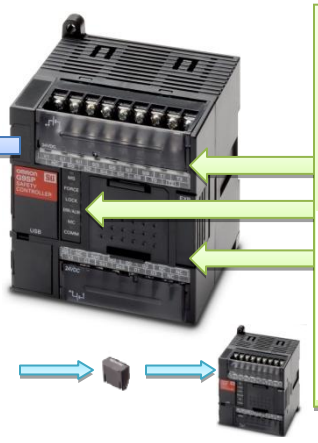
2) EASIER TROUBLESHOOTING



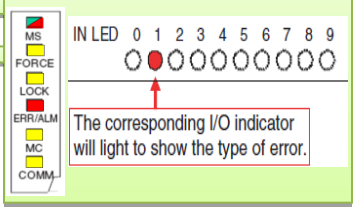
Basic 2-Channel Safety Relay

Diagnostic LEDs
Most conventional 2-Channel Safety relays have only 2 diagnostic LEDs (1 LED per channel). **How hard are faults to troubleshoot?**

Back-up Memory Cassette



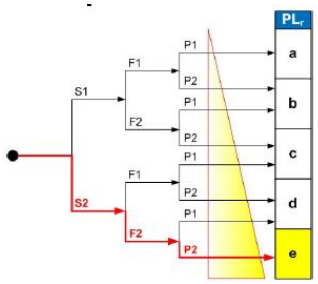
Diagnostic LEDs:
- 5 G9SP Status LEDs for system diagnostics
- Individual Bi-colored Input/Output LEDS for device diagnostics

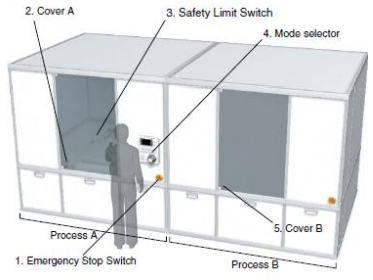


Memory Back-up
Need to replace your G9SP? Use the memory cassette to replace your program hassle-free without a computer

Blank G9SP

3) FLEXIBILITY TO INCREASE SAFETY AND INCREASE PRODUCTIVITY





Increase Performance Level:
- Use the G9SP to increase your Diagnostic Coverage, Category, CCF, and MTTdF.

Control your Access:
- G9SP has built-in muting to temporarily deactivate safety devices
- Create a controlled Safety Bypass Override to keep operators safe and continue production

Zone your Safety Functions:
Allow different safety devices to execute different functions. Continue production where no hazard is present.