

Single Source for Machine & Process Safeguarding Solutions

Product Selection and Overview



- Enhanced worker safety through proper safeguarding
- Expert guidance from components to consulting
- Global product support and availability

Selecting the Right Safety Device for Manufacturing Applications

Safety is the number one responsibility of every manufacturer

The most challenging applications to ensure safety are those where personnel are required to access areas where potentially hazardous operations take place, such as machining, welding, movement of a robot arm, etc. The best safety device is the one that offers the maximum safety with the minimum impact on machine operations at the lowest possible cost.

This flow chart will help in selecting the most appropriate safety device technology for typical manufacturing applications. The chart organizes safety devices into:

INPUT – Devices that capture information from the machine to determine if it can run.

LOGIC – Devices that make safety-related decisions.

OUTPUT – Devices that interact with equipment in order to ensure the safety of personnel.

This chart is designed to only provide general guidelines and input selections are limited to primary device selection that shuts down equipment. All device selections should be confirmed by a qualified safety expert.

Making Safety Simple

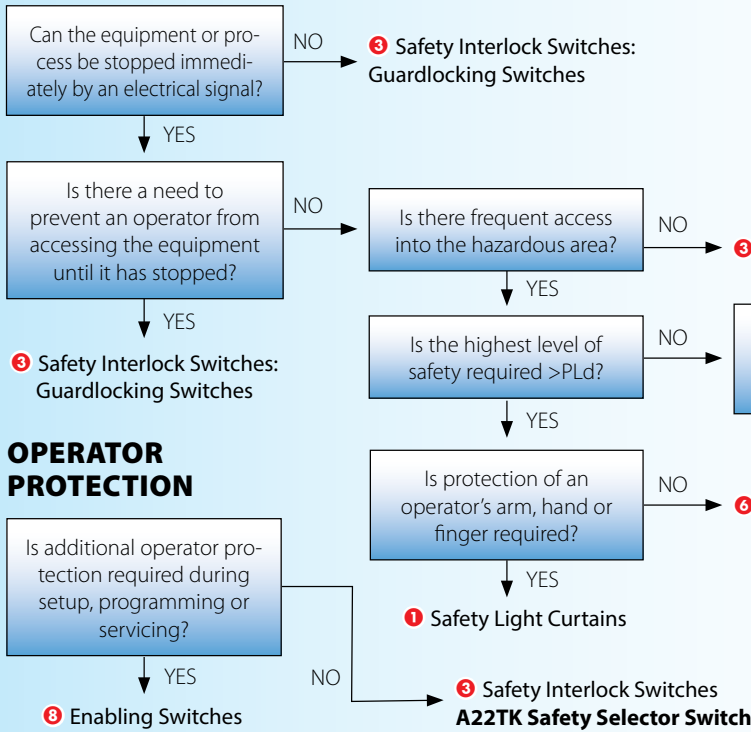
We listen to the needs of our customers and offer expert advice and guidance for the application, integration and maintenance of safeguarding systems. Our goal is to protect personnel and increase overall machine performance.

*Choose OMRON Automation & Safety
as your machine safety partner.*

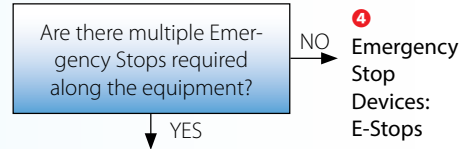




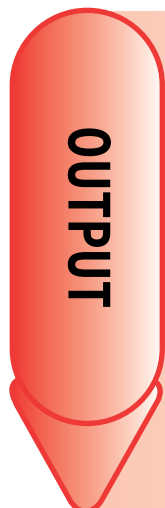
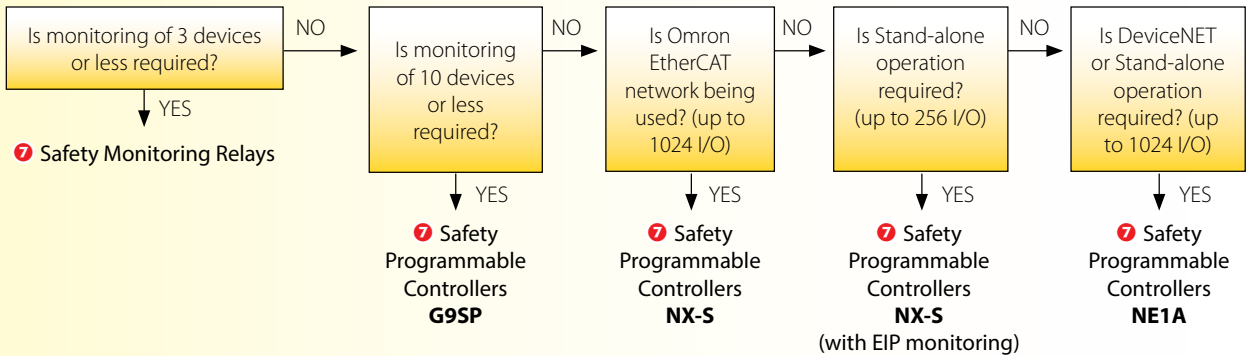
SAFEGUARDING DEVICES



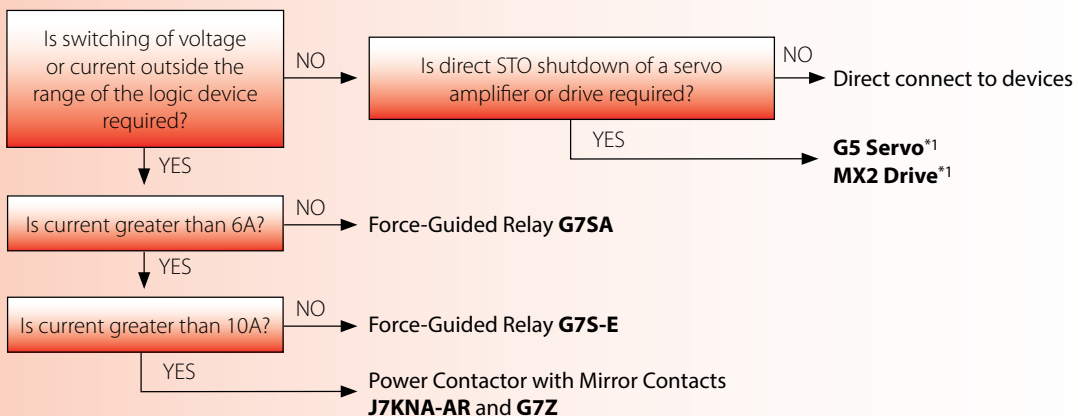
EMERGENCY STOP DEVICES



SAFETY DEVICE MONITORING AND CONTROL



OUTPUT DEVICES



*1 Please refer to www.omron247.com for more information about servos and drives with integrated safety

* Please refer to www.omron247.com or to the Machine & Process Safeguarding Solution Selection Guide for additional information and product selections.

Welcome to OMRON Automation & Safety

STI Safety Solutions from Components to Consulting for Enhanced Worker Safety

NEW



F3SG-RA/RE

1 Safety Light Curtains

The F3SG global light curtains offers advanced functionality suitable for a wide range of applications. The economy type offers simple on/off operation for basic applications. Both types have a robust IP67 waterproof housing for demanding environments.



F3SJ-E



F3SJ-B



F3SJ-A



MS4800



OS32C

2 Safety Laser Scanners

Our OS32C is a very compact safety laser scanner. It has 70 zone configurations for complex guarding parameters. Safety coverage up to 4 m at 270 degrees.

Industry First!
EtherNet/IP capable of status and measurement data reporting.

3 Safety Interlock Switches

Tamper resistant switches enhance mechanical guarding methods.

- Guardlocking switches
- Hinge pin switches
- Non-contact switches
- Limit switches
- Tongue switches
- Explosion-proof versions



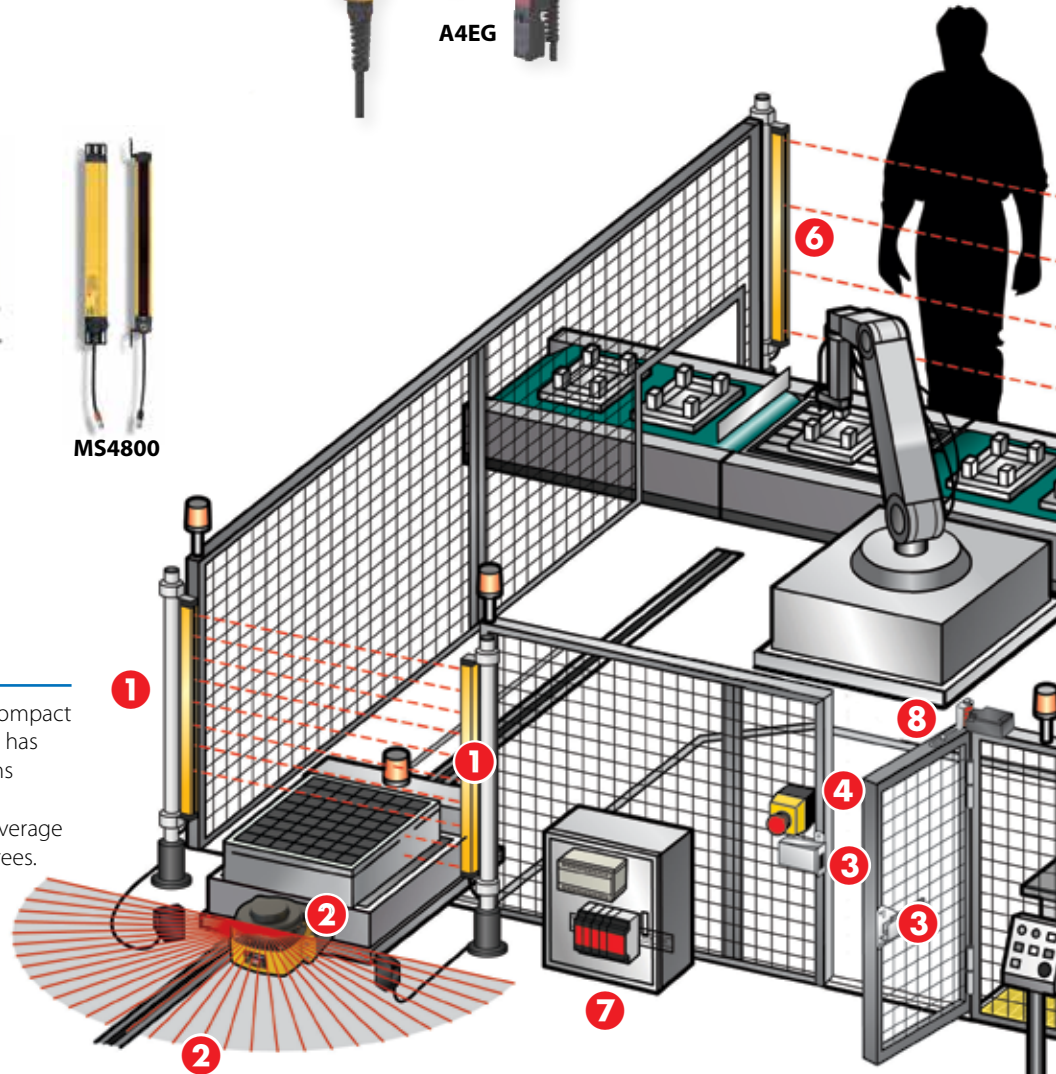
8 Enabling Switches

Provides the additional protection needed during set-up, programming and servicing of robotic and automatic equipment.

- Has distinct clicks for three easily discernible positions



A4EG



7 Safety Programmable Controllers

7 Safety Monitoring Relays

The NX-S series of controller offers Safety over EtherCAT, our first to offer integrated safety functionality into the Sysmac platform, suitable for mid to large sized applications; now with stand-alone capabilities.

The G9SP stand-alone programmable safety controller for mid-sized applications supports direct connection to safety mats and non-contact switches. The new G9SE series of safety relay units offers an easy approach for various simple safety applications. The G9SE saves mounting space, lowers installation cost with screw-less terminals, and reduces operational cost with intuitive diagnostic indicators.

NEW

NX-S



NE1A



G9SP



G9SE

6 Perimeter Guarding

PA4600 models are available with single and multiple-beam models with an operating range to 70 meters. They're perfect when installing fences is not practical.



PA4600

5 Safety Edges & Bumpers

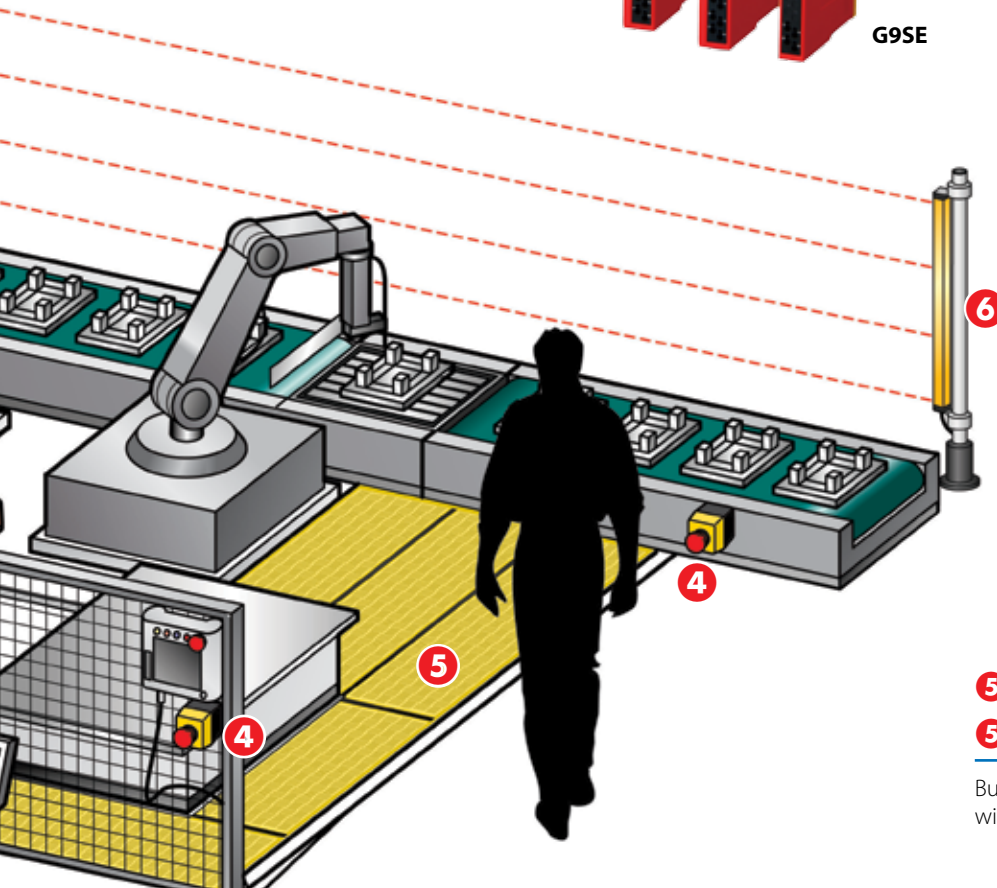
5 Safety Mats & Area Guarding

Built tough for tough environments. Combine a mat with a controller to provide proven reliability.



4 Emergency Stop Devices

- Enclosed and panel-mounted models available with key-operated reset.
- Combination rope and push button actuated emergency stop switches.
- Heavy duty housing offering rope spans to 200 meters



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Temperature & Process Controllers

- Single and Multi-loop Controllers

Sensors & Vision

- Proximity Sensors • Photoelectric Sensors • Fiber-Optic Sensors
- Amplified Photomicrosensors • Measurement Sensors
- Ultrasonic Sensors • Vision Sensors

Industrial Components

- RFID/Code Readers • Relays • Pushbuttons & Indicators
- Limit and Basic Switches • Timers • Counters • Metering Devices
- Power Supplies

Safety

- Laser Scanners • Safety Mats • Edges and Bumpers • Programmable Safety Controllers • Light Curtains • Safety Relays • Safety Interlock Switches