

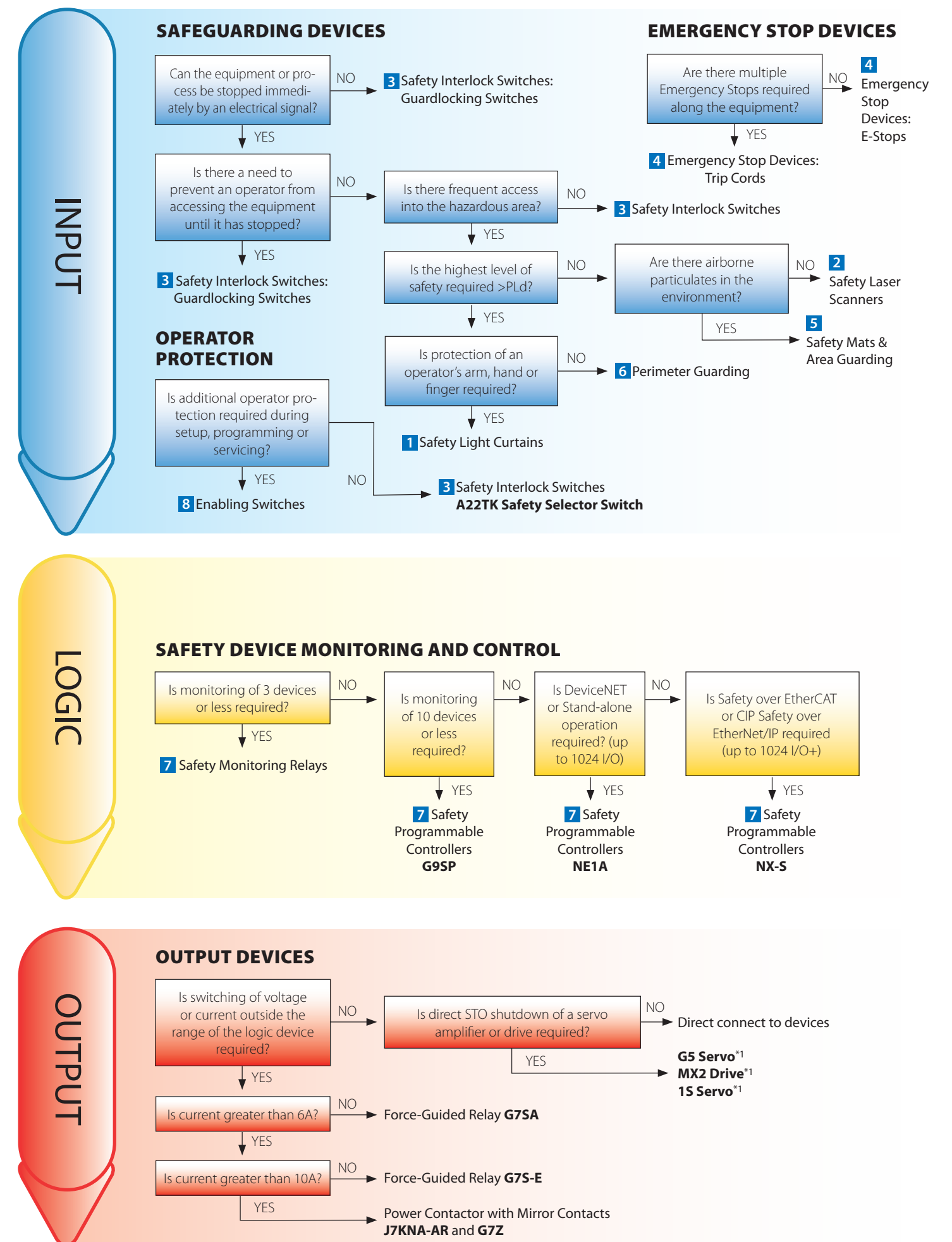


# Single Source for Machine & Process Safeguarding Solutions

Product Selection and Overview



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



\*1 Please refer to [www.omron247.com](http://www.omron247.com) for more information about servos and drives with integrated safety

\* Please refer to [www.omron247.com](http://www.omron247.com) or to the Machine & Process Safeguarding Solution Selection Guide for additional information and product selections.



# OMRON Safety Product Offering

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. The F3SG-RA and RE both have a robust IP67 waterproof housing and the F3SG-RR has a IP67G oil resistant housing for demanding environments.

NEW



F3SG-RR



A4EG

## 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

## 7 Safety Programmable Controllers

### 7 Safety Monitoring Relays

The NX-S series of safety controllers offers both Safety over EtherCAT, CIP Safety over Ethernet/IP communication protocols. These controllers can be configured to suit a variety applications.

The G9SP stand-alone programmable safety controller for mid-sized applications supports direct connection to safety mats and non-contact switches.

The G9SA series of safety relay units offers a basic approach for various simple safety applications. The G9SA offers a full line-up of AC/DC24, AC100-AC240 instantaneous, time-delay and two-hand control monitoring relays.

NEW

NX-SL3



Safety over  
EtherCAT®  
EtherCAT®

NEW

NX-SL5



EtherNet/IP™



G9SP



G9SA

## 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

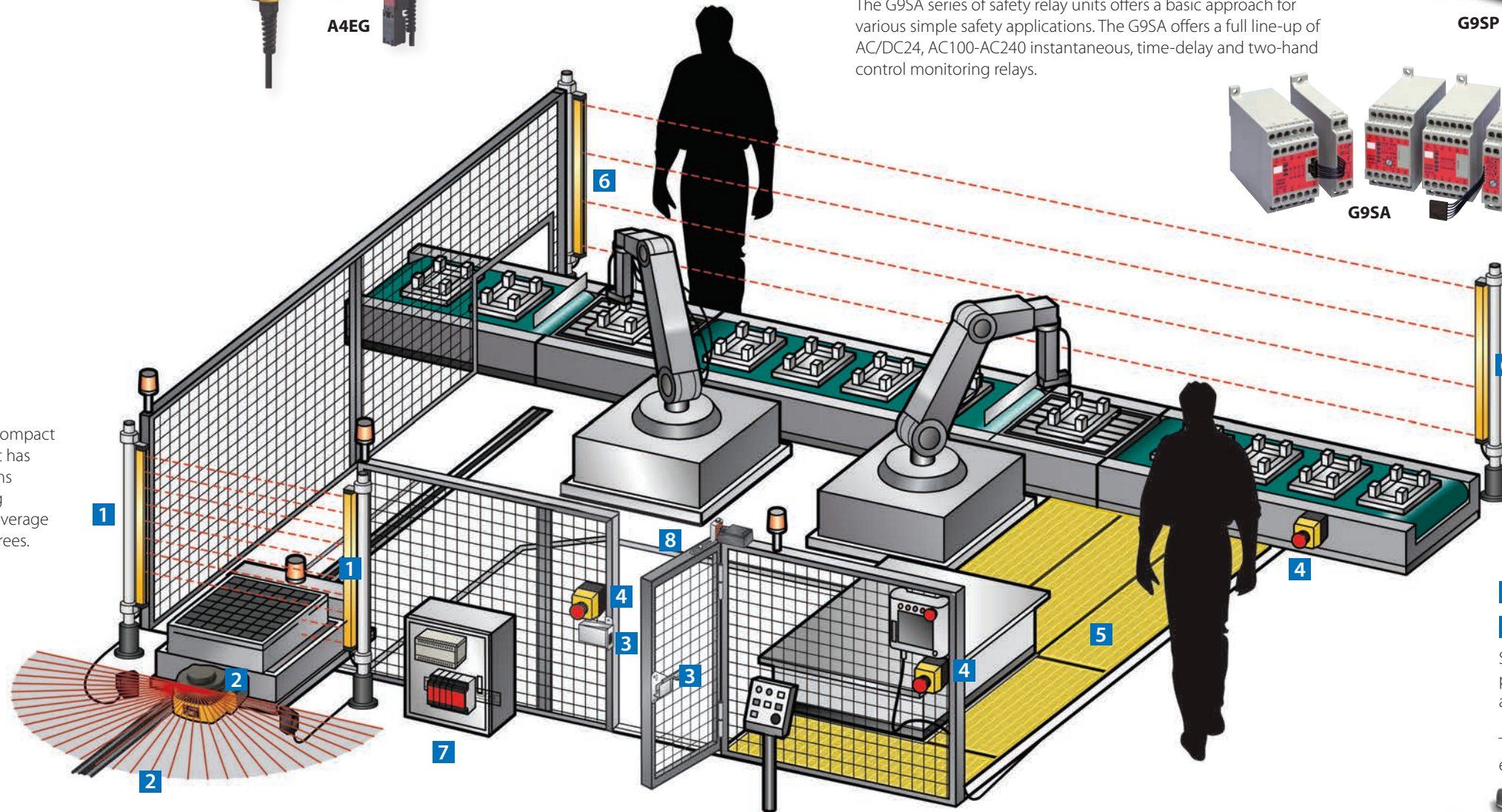
## 2 Safety Laser Scanners

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.



OS32C

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



D4NS



D4SL-N



D4F



D40P/D40R

## 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



A22E/A22NE-P



ER6022



SGE/SCS



UMA

## 5 Safety Edges & Bumpers

### 5 Safety Mats & Area Guarding

Safety edges are used on edges of guards and gates at possible crushing or shearing points. Safety bumpers combine a safety edge with foam to provide a larger crush zone.

The new UMA polyurethane Safety Mats provide safety in dirty environments possibly subject to hose down cleaning (IP65).



# 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.*



**OMRON AUTOMATION AMERICAS HEADQUARTERS** • Chicago, IL USA • 847.843.7900 • 800.556.6766 • [www.omron247.com](http://www.omron247.com)

**OMRON CANADA, INC. • HEAD OFFICE**  
Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • [www.omron247.com](http://www.omron247.com)

**OMRON ELECTRONICS DE MEXICO • HEAD OFFICE**  
México DF • 52.55.59.01.43.00 • 01-800-226-6766 • [mela@omron.com](mailto:mela@omron.com)

**OMRON ELECTRONICS DE MEXICO • SALES OFFICE**  
Apodaca, N.L. • 52.81.11.56.99.20 • 01-800-226-6766 • [mela@omron.com](mailto:mela@omron.com)

**OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE**  
São Paulo, SP, Brasil • 55.11.2101.6300 • [www.omron.com.br](http://www.omron.com.br)

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