

Safety Components

Selection Guide

Complete lineup of safety components from input and logic to output

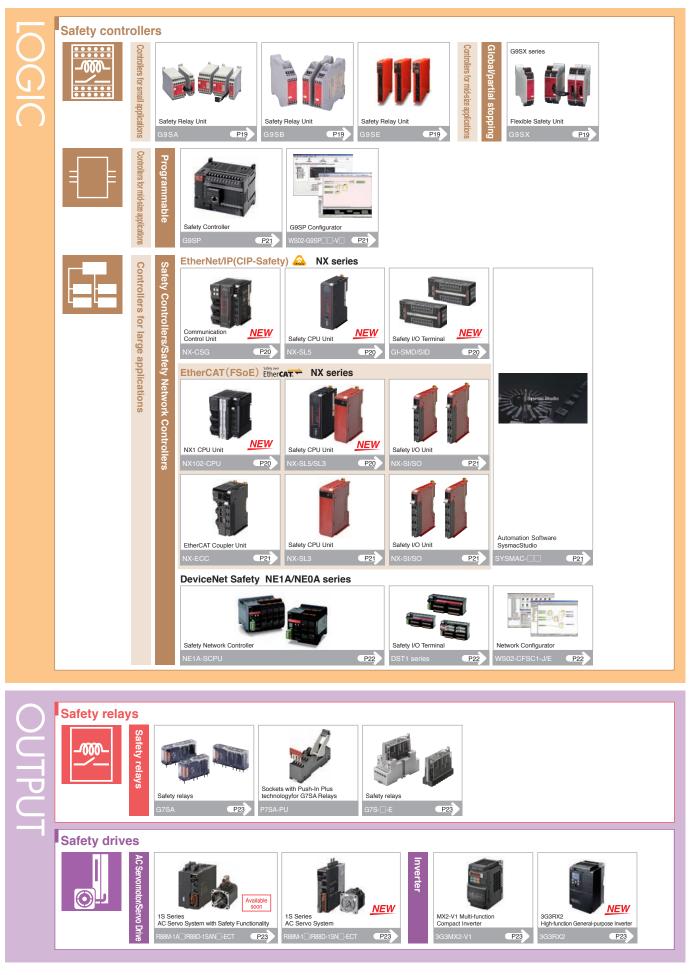




Omron products provide various Choose input, logic and output

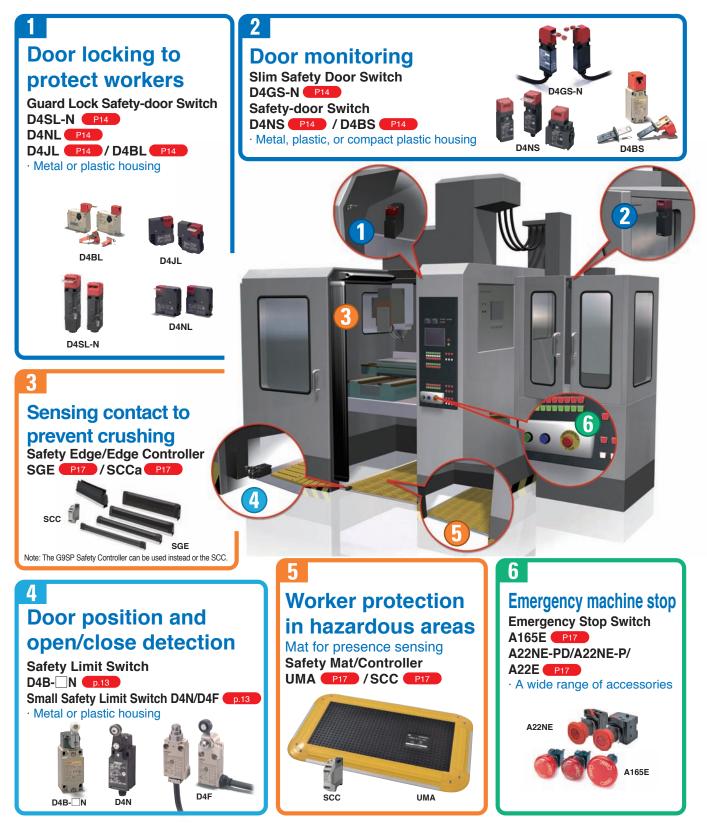


functionalities. components that are suitable for the machine's risks.



Product Application Examples

Omron safety components help improve machine safety

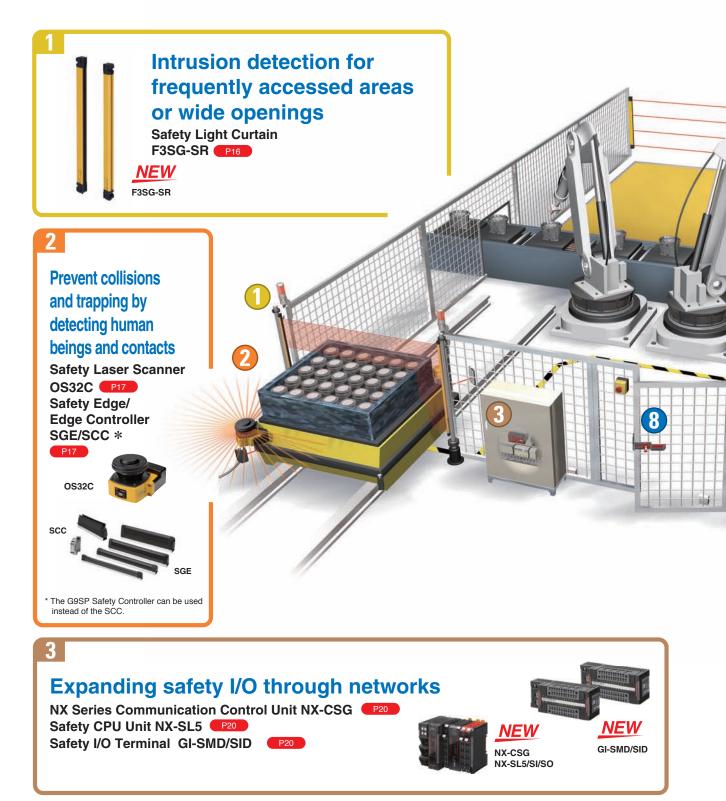


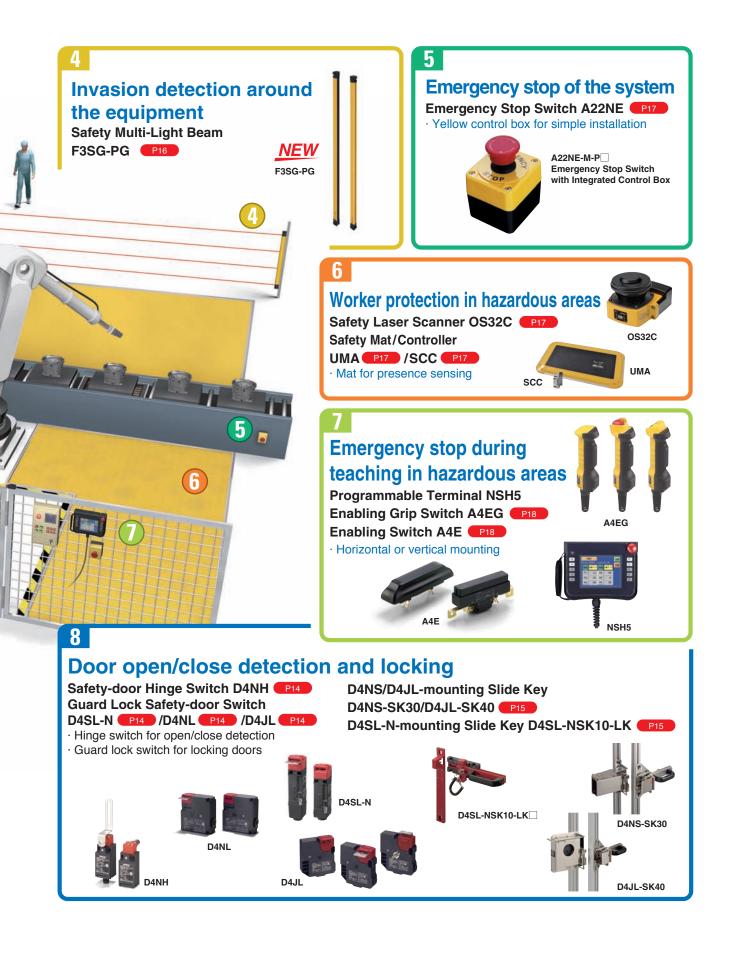
Safety Components Selection Guide



Product Application Examples

Omron safety components help protect workers at manufacturing sites

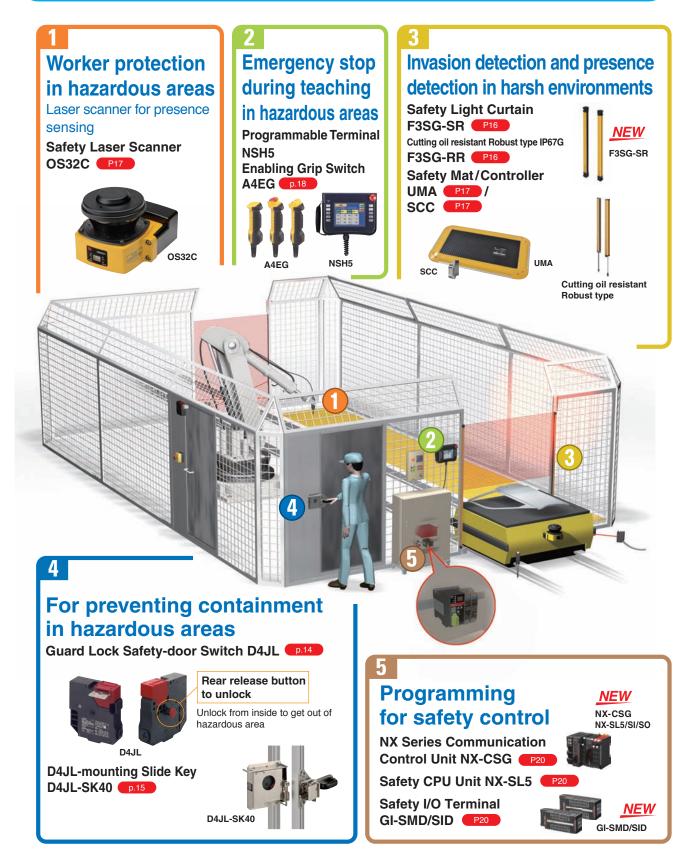




Safety Application Examples

Applications by industry

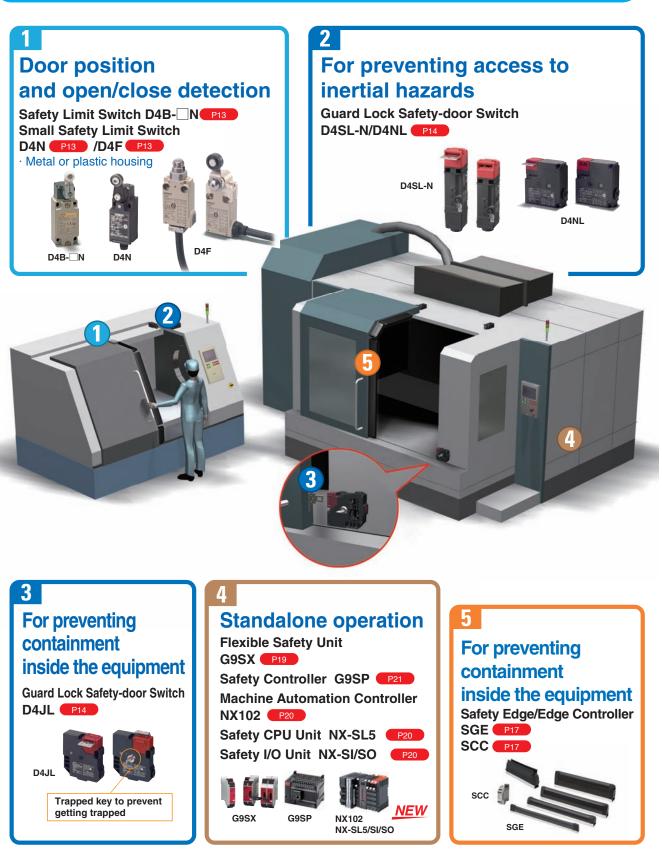
1. Automotive



Safety Components Selection Guide

Applications by industry

2. Machine tool



Safety Application Examples

Applications by industry 3. FPD manufacturing equipment



Safety Components Selection Guide

Applications by industry

4. Semiconductor manufacturing equipment





A22Z-EG Series P17

- · Minimizes accidental activation, preventing operating errors
- · SEMI compliant

2





A22Z-EG1-W

A22Z-EG2 (recessed shroud)

Note: These products can be used only for semiconductor manufacturing equipment. Do not use for other applications.

In the movable guard in the clean room Particle free

3

3

Compact Non-contact Door Switch D40A (PLd/Safety Category 3) D40Z (PLe/Safety Category 4) P15



Safety Application Examples

Applications by industry

5. Food production equipment



Protection in wash-down environments Safety Light Curtain

F3SG-SR P16 Applicable to IP67G for waterproof and oil resistance •IP69K model

F3SG-SR-K

nce



The IP69K model also supports high-pressure cleaning

Safety Light Curtain F3SJ-A P16 •Water-resistant Case

F39-EJ...-L/-D (For F3SJ-A)

IP67 compliant environment-resistant case

> F3SJ-A, F39-EJ____-L/-D



In the selection of the guarded area of the opening Safety Laser Scanner

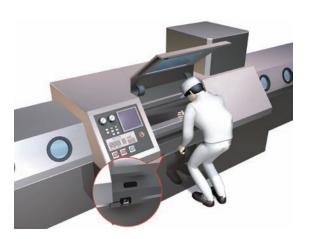
Safety Laser Scanner OS32C P17

OS32C



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Non-contact door detection for unstable doors in wash-down environments





Safety limit switches

Model	Appearance	Features
D4N Small Safety Limit Switch WEB		 Lineup with up to 3 contacts: 1NC/1NO, 2NC, 2NC/1NO, 3NC, 1NC/1NO MBB and 2NC/1NO MBB M12 connector type for quick wiring and easy replacement For standard loads and micro loads
D4F Small Safety Limit Switch WEB		 An incredibly small limit switch with a direct opening mechanism (four-contact construction model). High sensitivity 2 and 4 contact types IP67 protection
D4B- N Safety Limit Switch WEB	í là	 Direct opening mechanism (NC contacts only) opens contacts when faults occur Indicates applicable operating zone Push-button switching to control left and right motion IP67 protection
D4N- Pull-reset Safety Limit Switch WEB		 Lineup with up to 3 contacts: 1NC/1NO, 2NC, 2NC/1NO and 3NC M12 connector type for quick wiring and easy replacement For standard loads and micro loads

Safety door switches

Model	Appearance	Features
D4NS Safety-door Switch WEB		 Lineup with up to 3 contacts: 1NC/1NO, 2NC, 2NC/1NO and 3NC M12 connector type for quick wiring and easy replacement For standard loads and micro loads Metal head types available
D4GS-N Slim Safety Door Switch WEB		 Slim housing only 17 mm wide (3 contacts) Reversible design allows front or rear mounting Lineup with up to 3 contacts: 1NC/1NO, 2NC, 2NC/1NO and 3NC IP67 protection
D4BS Safety-door Switch WEB		 Direct opening mechanism opens switch contact when protective cover is opened Wide temperature range: -40 to 80°C IP67 rated switch box (EN 60947-5-1)
D4SL-N Guard Lock Safety-door Switch Cat. No. C146		 Reduced wiring time with one-touch attachment and removal 4, 5 and 6 contact types Key holding force: 1,300 N Turning key insertion point without detaching head Drive solenoid directly from the controller
D4JL Guard Lock Safety-door Switch WEB		 Strong key holding force: 3,000 N (plastic housing) 2 safety circuits and 2 monitor contacts for various monitoring patterns For standard loads and micro loads Trapped key and rear release button prevent workers from getting trapped inside hazardous areas IP67 protection
D4NL Guard Lock Safety-door Switch WEB		 Built-in switches with multiple-contact construction are available. Key holding force: 1,300N For standard loads and micro loads Various conduit types, e.g. M20 IP67 protection
D4BL Guard Lock Safety-door Switch WEB		 Automatic mechanical locking by inserting operation key Release by applying voltage to solenoid Auxiliary release key for emergency unlock IP67 protection
D4NH Safety-door Hinge Switch WEB		 Lineup with up to 3 contacts: 1NC/1NO, 2NC, 2NC/1NO, 3NC, 1NC/1NO MBB and 2NC/1NO MBB M12 connector type for quick wiring and easy replacement For standard loads and micro loads

Safety Components Selection Guide

Model	Appearance	Features
D40A Compact Non-contact Door Switch Cat. No. C140		 Stable operation reduces controller errors caused by unstable doors Connect up to 30 non-contact door switches with LED to one controller Reversible switch provides flexibility in installation Two color LED indicator for easy maintenance PLd/Safety Category 3
D40Z Compact Non-contact Door Switch Cat. No. C145		 Conforms to ISO 13849-1 (PLe/Safety Category 4) Switch's LED indication patterns for easy troubleshooting
D4SL-NSK10-LK D4SL-N-mounting Slide Key Cat. No. C146	r	 Lockout key prevents workers from getting trapped inside hazardous areas Vertical D4SL-N Guard Lock Safety-door Switch can be easily mounted on a 40 x 40 mm aluminum frame Plastic housing suitable for lightweight doors
D4NS-SK D4JL-SK D4NS/D4JL-mounting Slide Key WEB		 Door switch attachments for doors in various sizes from 20 x 20 mm aluminum frames to large guards around robots Shortens design time for door switch mounting part
WEB MarkRefer to your	local OMRON website	

Safety sensors

Model	Appearance	Features
F3SG-SR Safety Light Curtain Cat. No. F105 F3SG-PG	1	 Conforms to major international standards Environmental resistance and rugged structure for use in any environment (IP67, IP67G ') A broad line-up, from finger protection to body protection Flexible height model for easy integration into machines and lines For diverse applications, from simple protection to data utilization
Safety Multi-Light Beam	<u>NEW</u>	
Cat. No. F105		* IEC 60529/JIS C 0920 Annex 1
F3SG-SR-K Safety Light Curtain IP69K model Cat. No. F105	NEW	 IP69K (ISO 20653) protection for high-pressure wash-down applications Offers the same specifications and functionality as F3SG-4SRB standard model. Detection capability of 14- and 25-mm dia. Conforms to major international standards
F3SG-RR Safety Light Curtain (Robust type) Cat. No. F094	ļĮ	 Mechanical seal structure prevents cutting oil from getting inside Special materials and cables significantly enhanced oil resistance Rugged and compact housing. Perfect fit installation IP67G (JIS C 0920 Annex 1) rated
F3SG-RA/RE Safety Light Curtain (Advanced type, Easy type) Cat. No. F094		 F3SG-RA (Advanced type) Rugged and compact New muting function to increase both productivity and safety All models designed for global use. PNP/NPN selection by DIP switch Conforms to major international standards including Chinese standard GB 4584 F3SG-RE (Easy type) Provides simple safety functions - saving TCO by reducing errors Simple wiring with only 4 wires Fast response time of 5 ms
F3SJ-A Safety Light Curtain (ADVANCED Type) Cat. No. F074		 Muting and blanking functions available Series connection up to 4 sets Multiple versions available: Finger/hand/hand and arm/leg and body protection Protective heights from 245 mm to 2,500 mm Mounting bracket included
F3SJ-B/E Safety Light Curtain (BASIC Type, Easy type) Cat. No. F074		 F3SJ-B (BASIC Type) Series connection up to three sets. Fits a U-shaped or L-shaped pattern Muting function to temporarily disable the safety light curtain when a workpiece passes through. LED indicators for checking wiring status F3SJ-E (EASY Type) Simple and affordable hand protection 1/2 the mounting time (Comparison with existing Omron products)
E3ZS Single-beam Safety Sensor WEB		 Complies with EN and IEC standards Sensing distance: 3 m Used together with G9SP Safety Controller For hazardous gaps in machines
F3W-MA Smart Muting Actuator Cat. No. F094		 Integrated sensor system utilizing multiplebeam sensor technology Configure muting systems in combination with safety light curtains Chattering/void space prevention mode to prevent impact of small object holes
F3SP-B1P Control Unit for safety sensors WEB		 Control unit for F3SG-RA/F3SJ-B/F3SJ-A Safety Light Curtain Quick connection to light curtains using double-end connector cables Easy connection to light curtains (Use Double-Ended Cables) Note: The F3SP-B1P in combination with F3SG-RA/F3SJ-B/F3SJ-A conforms to standards.

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Presence sensing devices

Model	Appearance	Features
OS32C Safety Laser Scanner Cat. No. Z298		 Small size (104.5 mm) and lightweight (1.3 kg) Safety zone up to 4 m, warning zone up to 15 m, and detection angle up to 270° Low-power consumption (5 W) extends operation time of battery powered systems like AGVs Monitor operating status and measurement data over EtherNet/IP™
UMA/SCC Safety Mat/ Controller Cat. No. A250		 1 and 2 cable types Meets EN ISO 13849-1 (PLd/Safety Category 3) and EN ISO 13856-1 Can be used with MC3 Safety Mat Controller or NX Safety Controller Complies with North American safety standards including ANSI/RIA 15.06 A wide variety of mat sizes and trims
SGE/SCC Safety Edge/ Edge Controller Cat. No. F088		 SGE Safety Edge in combination with SCC Edge Controller meets Safety Category 3 when built-in relays directly block hazards Simple one-unit structure integrating sensor and cover Side force resistant Various sensor lengths (150 to 6,100 mm) and heights (34 to 80 mm) Compliant with EN1760-2 (Safety edge standard)

Emergency stop switches

Model	Appearance	Features
A165E Emergency Stop Switch (16-dia.) WEB	100	 Direct opening mechanism opens contacts in emergencies Safety lock mechanism prevents misuse Modular construction; easy installation using snap-in switch 3 contacts built into a single block (A165E-U)
A22NE-PD Emergency Stop Pushbutton Switch (22-dia. or 25-dia.) Cat. No. A263		Push-in Plus Terminal Block Model with Lock-lever-linked Contact Function • Lock-lever-linked Contact function detects improper installation of switch unit • Compact design and changed wiring direction reduce control panel size • Push-in plus terminals provide vibration resistant connections, reducing maintenance work • Lineup with up to 4 contacts • IP65 oil-resistant (non-lighted)/IP65 (lighted)/IP69K for high-temperature, high-pressure washdown (pull-reset)
A22NE-P Emergency Stop Pushbutton Switch (22-dia. or 25-dia.) Cat. No. A263		Push-in Plus Terminal Block Model • Compact design and changed wiring direction reduce control panel size • Push-in plus terminals provide vibration resistant connections, reducing maintenance work • Lock lever for easy mounting • Lineup with up to 6 contacts • P65 oil-resistant (non-lighted)/IP65 (lighted)/IP69K for high-temperature, high-pressure washdown (pull-reset)
A22E Emergency Stop Pushbutton Switch (22-dia. or 25-dia.) Cat. No. A263		Screw Terminal Block Model Increased wiring efficiency with 3-row mounting of switch blocks (Non-lighted model: 3 switch blocks can be mounted for multiple contacts) Round or forked crimp terminals can be used for installation IP65 oil-resistant (non-lighted)/IP65 (lighted) Bundled lock plate fixes lever to prevent operation unit and switch blocks from separating
A22Z-EG Series E-stop Shroud Cat. No. A263		 Minimizes accidental activation, preventing operating errors A22Z-EG1: EMERGENCY OFF legend plate included A22Z-EG2: recessed shroud Spacers can be used to adjust amount of protrusion

Enabling devices

Model	Appearance	Features
A4EG Enabling Grip Switch WEB	ĨĨ	 3-position switch with clicking feel Configure safety circuits easily by combining with G9SX-GS Safety Guard Switching Unit Models with emergency stop switch or momentary operation switch available Optional holding key (sold separately) to change modes
A4E Enabling Switch WEB		 3-position switch with clicking feel Complies with American national standard ANSI/RIA R15.06-1999 Can be mounted in two directions
A22LK Guard Lock Safety Key Selector Switch WEB		 Secure equipment activation during maintenance Guard lock of operation unit prevents misuse The key has the same shape as the following key Key of A22TK Safety Key Selector Switch Trapped key of D4JL Guard Lock Safety-door Switc Lockout key of D4SL-NSK10-LK Slide Key
A22TK Safety Key Selector Switch Cat. No. A189	1	 Secure equipment activation during maintenance 30 key types prevent locking devices from being easily disabled Key has the same shape as trapped key of D4JL Guard Lock Safety-door Switch and lockout key of D4SL-NSK10-LK Slide Key. These units can be combined to improve safety (Specify the same key type) Common to switch blocks of A22E Emergency Stop Switch (Non-lighted model only)

Safety relay units

Model	Appearance	Features
G9SA Safety Relay Unit WEB		 Compact design Two-hand controller available Simple expansion connection Fast response time: 10 ms Operating status indicators Finger protection construction Modules with 3 or 5 safety contacts and OFF-delay timing
G9SB Safety Relay Unit WEB		 17.5 mm- and 22.5 mm-wide housing Connectable with safety area sensors Fast response time: 10 ms Operating status indicators Finger protection construction
G9SE Safety Relay Unit Cat. No. J198		 17.5 or 22.5 mm width to save mounting space Simple wiring using Push-In Plus terminal block Easy maintenance with status indicators One unit for various safety devices, from contact input to PNP input

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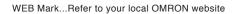
■ Flexible safety units G9SX Series

Model	Appearance	Features
G9SX Flexible Safety Unit WEB		 Logical "AND" function to implement partial/global stopping of a machine Solid-state outputs (excluding expansion units) Clear LED diagnosis of all inputs and outputs
G9SX-NS Non-Contact Door Switch Controller Cat. No. C140		 Connect up to 30 D40A/D40Z Compact Non-Contact Door Switches to one controller Logical "AND" function to implement partial or global stopping of a machine No programming required Both non-contact door switches and conventional key-type safety-door switches can be input to G9SX-NSA
G9SX-GS Safety Guard Switching Unit WEB		 Two operation modes to support auto switching and manual switching External indicator outputs to indicate switching status of two safety input devices Auxiliary outputs for monitoring of safety inputs, safety outputs, and errors Clear LED diagnosis of all inputs and outputs Clear and transparent segmentation of safety functions by use of unique logical "AND" connection
G9SX-SM Standstill Monitoring Unit WEB		 Based on Back EMF operation Ready to use - covering all standard applications without additional setup User Configuration for fine-tuning of sensitivity Clear LED diagnosis of all inputs and outputs Up to Cat. 4 according to EN 954-1, PLe according to EN ISO 13849-1, and SIL 3 according to IEC/EN 62061
G9SX-LM Low-speed Monitoring Unit WEB		 Motor rotation speed detected by proximity sensor Monitors and confirms that speed does not exceed the preset level Enabling switch input for maintenance Clear LED diagnosis of all inputs and outputs Up to Cat. 3 according to EN 954-1, PLd according to EN ISO 13849-1, and SIL 3 according to IEC/EN 62061

Safety Network Controller NX Series EtherNet/IP (CIP-Safety)



Safety Controller NX Series EtherCAT (FSoE) + EhterNet/IP (CIP-Safety)		
Model	Appearance	Features
NX102-	NEW.	 Fast and accurate control by synchronizing all machine devices with the PLC and Motion Engines Three built-in industrial Ethernet ports OPC UA server functionality Up to 12 axes of control via EtherCAT Up to 32 local NX I/O Units DC power supply without battery backup Fully conforms to IEC 61131-3 standard programming PLCopen Function Blocks for Motion Control allow users to create complex programs quickly and easily Direct connection to a database, with no special unit, software, or middleware required (NX102-□20)
SYSMAC-SE Automation Software Sysmac Studio Cat. No.P138	Sipinas Studio	 One software for motion, logic, safety, drives , vision and HMI Fully compliant with open standard IEC 61131-3 and Japanese standard JIS B3503 Supports Ladder, Structured Text and Function Block programming with a rich instruction set CAM editor for easy programming of complex motion profiles One simulation tool for sequence and motion in a 3D environment Advanced security function with 32 digit security password



Safety Controller NX Series EtherCAT (FSoE)

Model	Appearance	Features
NX102/SL3/ SI/SO NX1 CPU Unit, Safety Control Units WEB		 Support for the IEC 61131-3 Programming Environment Program Languages Based on the IEC 61131-3 International Standard Programming with Variables Complete Advanced Validation Checking Safety Programs and Safety Parameters Debugging
NX701/102-, NJ501/301/101 -CPU NX/NJ Series CPU Unit NX-ECC/SL3/ SI/SO EtherCATCoupler Unit, Safety Control Units Cat. No. F101		 Integrated safety into machine automation possible by connecting with the NX-series EtherCAT Coupler. The Safety CPU Unit controls up to 128 Safety I/O Units. 4 or 8 points per Safety Input Unit. The 4-point Safety Input Unit can be directly connected with OMRON Non-contact Switches and Singlebeam Sensors. 2 or 4 points per Safety Output Unit. The 2-point Safety Output Unit is characterized by large output breaking current of 2.0 A. The Safety Units can be freely allocated in any combination with standard NX I/O. Compliant with IEC61131-3 Safety programs can be standardized and reused efficiently by using POUs for design and operation.
SYSMAC-SE Automation Software Sysmac Studio Cat. No. P138	Spinas Studio	 One software for motion, logic, safety, drives, vision and HMI Fully compliant with open standard IEC 61131-3 and Japanese standard JIS B3503 Supports Ladder, Structured Text and Function Block programming with a rich instruction set CAM editor for easy programming of complex motion profiles One simulation tool for sequence and motion in a 3D environment Advanced security function with 32 digit security password

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Safety Controller NX Series Stand-alone System

Model	Appearance	Features
NX-EIC202/ SL3/SI/SO EtherNet/IP Coupler Unit, Safety Control Units Cat. No. F100		 Up to 63 NX-IO Units can be connected to one EtherNet/IP Coupler Unit. Standard and high-performance units can be mixed1. * Each Coupler plus its I/O form just a single EtherCAT node on the network. I/O control and safety control can be integrated by connecting Units for safety. The IP address can be found on the label on the Unit, without using software. Slave configuration by Sysmac Studio can be done centrally via the controller, or on-the-spot using the Coupler's built-in USB port. * Input per Coupler Unit: Maximum 504 bytes, Output per Coupler Unit: Maximum 504 bytes
SYSMAC-SE/ NE/FE Automation Software Sysmac Studio Cat. No. P138	Signas Studio	 One software for motion, logic, safety, drives , vision and HMI Fully compliant with open standard IEC 61131-3 and Japanese standard JIS B3503 Supports Ladder, Structured Text and Function Block programming with a rich instruction set CAM editor for easy programming of complex motion profiles One simulation tool for sequence and motion in a 3D environment Advanced security function with 32 digit security password

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Safety Controller G9SP Series

Model	Appearance	Features
G9SP Safety Controller Cat. No. F090		 Easy programming for complex safety control Unique programming software to support easy design and verification Memory cassette for easy duplication of configuration
WS02- G9SP V G9SP Configurator Cat. No. F090		G9SP configuration tool • Easy setup and configuration • Simulation for easy verification • User-defined Function Blocks greatly reduce design time

■ Safety Network Controller DeviceNet□Safety NE1A/NE0A Series

Model	Appearance	Features
NE1A- SCPU(-EIP) Series Safety Network Controller WEB		Achieve Safety Control through Programming. NE1A-SCPU • Compact Safety Controller. • Reduced wiring with safety networks. Connect up to 32 Safety Terminals. • Monitor the safety system from Standard Controllers across the network. • ISO13849-1 (PLe) and IEC 61508 SIL3 certification. NE1A-SCPU-EIP • Monitors safety systems via EtherNet/IP. • Equipped with master functions of CIP Safety on DeviceNet. • Does not require external devices for connecting Safety Network Controller and EtherNet/IP.
NE0A-SCPU Series Safety Network Controller WEB		Ideal for safety applications with up to 12 inputs Safety category compliant circuits can be built easily Reusable user-defined safety circuit templates for easy standardization TÜV-certified templates available NE0A operating status can be monitored by standard DeviceNet master Network distribution in combination with NE1A Safety Controller
DST1 Series Safety I/O Terminal WEB		 Terminals for distributed safety components reduce wiring Up to 12 inputs for safety signals Up to 8 safety outputs (solid state or relay) Safety system can be monitored by standard controller via networks Up to Cat. 4 according to EN 954-1/ISO 13849-1 and SIL 3 according to IEC 61508 DST1-XD0808SL-1 with built-in logic functions for high-speed processing in applications requiring partial stopping of safety systems
NE1A-EDR01 EtherNet /IP-DeviceNet Router WEB		Allows safety system to be monitored via Ethernet • Remote operation of safety system from PC • Monitors safety system by other vendor's PLC via Ethernet • UDP packet messages supported
WS02- CFSC1-J/E Network Configurator WEB		Configuration tool for NE Series • I/O configuration of safety network controllers and safety I/O terminals • Safety circuit programming • Monitoring of safety circuits • Includes DeviceNet Configurator functions

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Safety relays

Model	Appearance	Features
G7SA Relay with Forcibly Guided Contacts Cat. No. J120		 Relays with forcibly guided contacts (EN 50205 Class A, certified by VDE) Compact and slim design 4- and 6-pole relays available Terminals are arranged for easy PCB layout Reinforced insulation between inputs, outputs and poles
G7SE Relay with Forcibly Guided Contacts WEB		 NO contacts: 10 A at 250 VAC and 10 A at 30 VDC, NC contacts: 6 A at 250 VAC and 6 A at 30 VDC (for resistive loads) Relays with forcibly guided contacts (EN 50205 Class A, certified by VDE) Supports CE marking of machinery (Machinery Directive) Track-mounting and back-mounting sockets available
G7Z Power Relay Cat. No. J160	A STATE	 Switching current 160 A (40 A rating/4-pole/IEC-AC1) Relay in combination with auxiliary contact block meets EN 60947-4-1 Safety function with mirror contacts in various configurations Reduced openings to protect against dust and foreign matters Compact, cost efficient solution for applications such as inverters, UPS, solar and fuel-cell battery circuits

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Safety drives

Model	Appearance	Features	
R88M-1A/ R88D-1SAN-ECT AC Servo System with Safety Functionality Cat. No. 1838/1842 *	Available soon	 Advanced safety functions: STO/SS1/SS2/SOS/SLS/SLP/SDI/SBC Servo drive for rotary motors Up to 3 kW Battery-free absolute encoder Power, encoder and brake in one pre-assembled cable 	
R88M-1 / R88D-1SN -ECT AC Servo System Cat. No. 1821	NEW	 Safety function: STO Servo drive for rotary motors Up to 15 kW Battery-free absolute encoder 	
3G3MX2-V1 Multi-function Compact Inverter Cat. No. 1920		 Safety function: STO PM motor control helps save energy Positioning functionality Up to 15 kW Drive Programming 	
3G3RX2 High-function General-purpose Inverter Cat. No. 1921/1923	NEW	 Safety function: STO PM motor control helps save energy Triple rating: Normal Duty (ND), Low Duty (LD), and Very Low Duty (VLD) Up to 132 kW Drive Programming 	

* Released soon. The catalogs will begin to be available after the product is released.

Introduction of safety component catalogs



Safety Light Curtain/ Safety Multi-Light Beam

F3SG-SR/PG Series Cat.No. F105



Safety Network Controller NX Series

Cat.No. F104

Note: Do not use this document to operate the Unit.

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