Safety Relays

Omron's safety relays feature a wide-ranging safety functionality, low maintenance needs and different options to meet your panel space and functional safety requirements.









Safety Relays – Product Selection Guide



Click on picture to link to product selection guide



Click on picture to link to datasheet

A slim size safety relay for the most common safety devices in high demand applications.

G9SB Safety Relay Unit

- Power requirements 24 VAC/DC
- Inputs 1- and 2-input channel units
- Outputs –two N/O outputs
- 17.5mm- and 22.5mm-wide housing
- Manual and automatic reset units
- Modules G9SB-200-B/D and G9SB-301-B/D can be used for safety devices with OSSD inputs like safety light curtains and safety scanners
- Modules G9SB-2002-A/C and G9SB-2031-A/C can be used for emergency stop, door switches and rope pull



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A versatile safety relays series, ideal for scalable safety solutions.

G9SX Safety Modules

- Power requirements 24 VDC
- Inputs single or dual N/C input channel
- Outputs up to 4 depending module
- Segmentation of safety functions by "AND" connection
- LED indications enable easy diagnosis
- Dedicated Safety function units available:
 - Safety guard switch unit
 - Standstill monitoring unit
 - Limited speed monitoring unit
 - Non-Contact door switch unit
 - Time delayed units (Max. Off delay time 150s)



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All purpose expandable safety relays series ideal for high demand applications.

G9SA Safety Relay Unit

- Power requirements 24 VAC/DC
- Inputs 1 or 2 channels possible
- Outputs –two N/O outputs
- 17.5-mm wide expansion Units with 3 poles and 3 OFFdelay poles
- Dedicated Safety function available:
 - **Emergency Stop Units**
 - **Emergency Stop Off-delay units**
 - Two-hand controller
 - Expansion units with delay options



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A compact safety relay for simple safety applications.

G9SE Safety Relay

- Power requirements 24 VDC
- Inputs two dual N/C input channel
- Output Up to 4 safety outputs
- 17.5 or 22.5 mm width to save mounting space
- Max. OFF-delay time up to 30 sec.
- Front side wiring using screw-less terminals
- Led indicators
- Universal inputs support a wide range of safety input devices like emergency stops, door switches, safety limit switches, etc.



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A cost-effective option for standalone safety applications.

SR1 Safety Monitoring Relay

- Power requirements 24 VAC/DC or 115 VAC
- Inputs single or dual N/C input channel
- Outputs –two N/O safety outputs
- External Device Monitoring (EDM)
- Manual or Automatic Reset
- Dedicated Safety function units available:
 - Stop Motion Sensing Unit
 - Two-Hand Control
 - E-Stop or single channel monitoring
 - Time delayed units and expansion units



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Compact, slim forcibility guided relays conforming to EN Standards

G7SA Forcibly Guided Relays

- Coil rated voltage: 12, 18, 21, 24, 48, 110 VDC
- 4 and 6 poles configurations are available
- Contact poles with NO and NC contacts options in different configurations
- Sockets for front-mounting, push-in plus terminals or screw terminals; or back-mounting, with PCB terminals
- Reinforce isolations between inputs and outputs and poles from different polarity
- Complies with
 - Machinery Directive
 - EN 50205 Class A (certified by VDE)

We make machine safety easier



Easy-to use



Cost-effective



Easy-to maintain