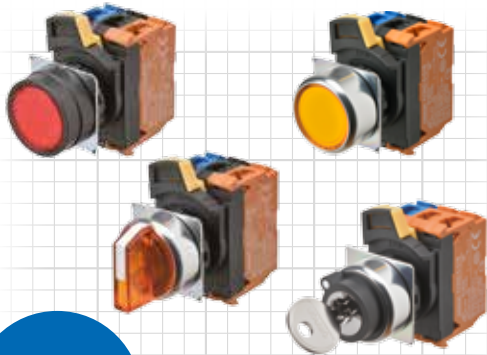


A22N Pushbuttons

Space Saving, Easy Maintenance and Safe Operation

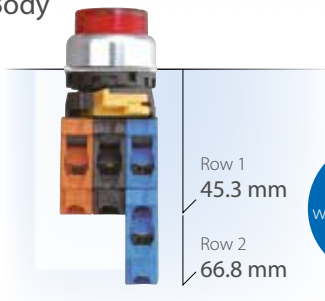


UL508

- Short body (22 mm) prevents interference with other components even when increasing number of circuits
- Use of multiple contact blocks helps reduce overall panel size
- Securely install and lock by sliding one piece
- Symmetric contact blocks provide easy installation



Short Body



Short body even when expanded to 2 rows

Easy Termination



Robust Offering

A22N

Quick Link **P659** omron247.com

Pushbutton Switch		Selector Switch		Key-type Selector Switch		Indicators				
A22N/A22NL	A22N with chrome bezel	A22NS/A22NW	A22NK	M22N						
										
22 mm	22 mm	22 mm	22 mm	22 mm						
		Red	Green	Yellow	White	Blue	Black	Orange	Opaque White	
Pushbutton Color	Non-Lighted Switches	Opaque							-	-
		Transparent						-		-
	Lighted Switches	When not lit						-		
		When lit						-		

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G7SA Safety Relays

Compact 22.5 mm Slim Relay allows panels to conform to global safety standards



UL508

G7SA Safety Solution

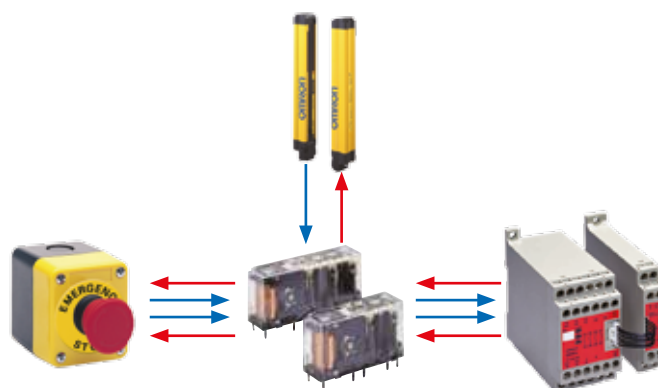
- Avoid hazardous machine status when used as part of an interlocking circuit
- Relay's terminal arrangement simplifies PWB pattern design
- Reinforced insulation between inputs and outputs
- UL 508 approved

Applications

- Plastic Injection Machines
- Shrink Wrap Machines
- Horizontal Packaging Machines
- Robotic Systems
- Heat Tunnels
- Safety Systems
- Vertical Packaging Machines
- Conveyor Systems

Markets

- Automotive
- Packaging
- Semiconductor
- Waste Water Treatment Plants
- Security Detention Centers
- Energy



Ordering Information

Relays

Quick Link **S353** omron247.com

Type	Sealing	Poles	Contacts	Rated Voltage	Model
Standard	Flux-tight	4 poles	3PST-NO, SPST-NC	24 VDC*1	G7SA-3A1B
			DPST-NO, DPST-NC		G7SA-2A2B
		6 poles	5PST-NO, SPST-NC		G7SA-5A1B
			4PST-NO, DPST-NC		G7SA-4A2B
			3PST-NO, 3PST-NC		G7SA-3A3B

*1 VDC, 21 VDC, 48 VDC are available on request.

Sockets

Type	LED Indicator	Poles	Rated Voltage	Model
Track-mounting	No	4 poles	24 VDC	P7SA-10F
		6 poles		P7SA-14F
	Yes	4 poles		P7SA-10F-ND
		6 poles		P7SA-14F-ND
Back-mounting	No	4 poles	—	P7SA-10P
		6 poles		P7SA-14P

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G9SE Safety Relays

An Easy Approach for Various Simple Safety Applications



UL508

G9SE Safety Solution

- 17.5 or 22.5 mm width saves premium panel space
- Simple wiring using screw-less terminals reduces labor costs and time
- Status indicators provide quick indication of application
- One unit can accept a variety of safety input devices

Applications

- Plastic Injection Machines
- Shrink Wrap Machines
- Horizontal Packaging Machines
- Robotic Systems
- Heat Tunnels
- Safety Systems
- Vertical Packaging Machines
- Conveyor Systems

Markets

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Ordering Information

Quick Link **S365** omron247.com

Type	Sealing	Auxiliary Outputs*3	Max. OFF-delay time *1	Rated Voltage	Model
Instantaneous	OFF-delayed*2				
DPST-NO	—	1 (Solid-state)	—	24 VDC	G9SE-201
4PST-NO	—		—		G9SE-401
DPST-NO	DPST-NO		5 s		G9SE-221-T05
DPST-NO	DPST-NO		30 s		G9SE-221-T30

*1 The OFF-delay time can be set in 16 steps as follows:

T05: 0/0.1/0.2/0.3/0.4/0.5/0.6/0.7/0.8/1/1.5/2/2.5/3/4/5 s

T30: 0/1/2/4/5/6/7/8/9/10/12/14/16/20/25/30 s

*2 The OFF-delayed output becomes an instantaneous output by setting the OFF-delay time to 0 s.

*3 PNP transistor output

G9SP Safety Controllers

Global Safety Levels = Lower Total Cost of Ownership



- Configurable unit makes it ideal for building multiple stand-alone systems with the same specifications, or reconfiguring an existing set-up
- Handles function blocks for non-contact switches, single-beam sensors and safety mat inputs
- Faster and easier integration compared to hardwired systems
- Single simple GUI for configuration, simulation, testing and validation
- Greatly reduced set-up time various safety devices, from contact input to PNP input

Applications

- Plastic Injection Machines
- Shrink Wrap Machines
- Horizontal Packaging Machines
- Robotic Systems
- Heat Tunnels
- Safety Systems
- Vertical Packaging Machines
- Conveyor Systems

Markets

- Automotive
- Packaging
- Semiconductor
- Waste Water Treatment Plants
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- Energy

Omron's Complete Safety Solution



Ordering Information

Quick Link **S356** omron247.com

Model	Part Number	Description
CM-EIP-1	82611-0010	G9SP ETHERNET/IP OPTION BOARD
G9SP-N10D	11080-0002	G9SP BASE MODEL, CONTROLLER, 10 SAFETY INPUTS, 6 TEST OUTPUTS, 16 SAFETY OUTPUTS
G9SP-N10S	11080-0001	G9SP BASE MODEL, CONTROLLER, 10 SAFETY INPUTS, 4 TEST OUTPUTS, 4 SAFETY OUTPUTS
G9SP-N20S	11080-0003	G9SP BASE MODEL, CONTROLLER, 20 SAFETY INPUTS, 6 TEST OUTPUTS, 8 SAFETY OUTPUTS
WS02-G9SP01-V1	11080-1001	G9SP SOFTWARE CONFIGURATOR

K8AK/K8DS Monitoring Relays

Protect critical processes and machines while maintaining prime panel space



- Ultra slim design increases valuable panel space
- Monitor more applications with a single source
- Visible LEDs save time and energy when checking on process status
- Rotary switches provide quick setup which allow users to focus on pressing matters

Applications












- Plastic Injection Machines
- Shrink Wrap Machines
- Horizontal Packaging Machines
- Robotic Systems
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- Safety Systems
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- Conveyor Systems

Markets

- Automotive
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- Energy

Product Comparison

Quick Link **R638** omron247.com

	Conductive Level Control	Temperature	Three-Phase					Single-phase			
	K8AK-LS	K8AK-TH	K8DS-PH	K8AK-PH	K8AK-PA	K8AK-PM	K8AK-PW	K8AK-VS	K8AK-VW	K8AK-AS	K8AK-AW
											
Detection Function	Liquid Level Monitoring	Temperature Monitoring	Phase-Sequence Phase-Loss Monitoring	Phase-Sequence Phase-Loss Monitoring	Asymmetry and Phase-Sequence Phase-Loss Monitoring	Voltage Monitoring	Voltage Monitoring	Voltage Monitoring	Over-voltage/ Under-voltage Monitoring	Current Monitoring	Over-current/ Under-current Monitoring
Dimensions	22.5 x 100 x 90	22.5 x 100 x 90	17.5 x 73 x 80	22.5 x 100 x 90	22.5 x 100 x 90	22.5 x 100 x 90	22.5 x 100 x 90	22.5 x 100 x 90	22.5 x 100 x 90	22.5 x 100 x 90	22.5 x 100 x 90
Temperature	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phase-sequence	N/A	N/A	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
Phase-loss	N/A	N/A	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
Over-voltage	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes (Selectable)	Yes (Simultaneous Monitoring)	N/A	N/A
Under voltage	N/A	N/A	N/A	N/A	N/A	Yes	Yes	Yes (Selectable)		N/A	N/A
Phase-Asymmetry	N/A	N/A	Yes (Fixed)	Yes (Fixed)	Yes (Adjustable)	N/A	N/A	N/A	N/A	N/A	N/A
Over-current	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes (Selectable)	Yes (Simultaneous Monitoring)
Undercurrent	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes (Selectable)	
Liquid Level	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Relay Output	One SPDT	One SPDT	One SPDT	One SPDT	One SPDT	Two SPDT	Two SPDT	One SPDT	Two SPDT	One SPDT	Two SPDT