



**Automatización Eléctrica**

Especialistas en Automatización

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## Expandable safety relay unit

G9SA-family offers a complete line-up of compact and expandable safety relay units. Modules with safe OFF-delay timing are available as well as a two-hand controller. Simple multiplication of safety contacts is possible by using the connection on the front.

- 45 mm-wide housing, expansion units are 17.5 mm wide
- Safe OFF-delay timer
- Simple expansion connection
- Certification up to PLe according to EN ISO 13849-1 depending on the application

## Ordering information

### Emergency-stop units

Main contacts	Auxiliary contact	Number of input channels	Rated voltage	Order code
3PST-NO	SPST-NC	1 channel or 2 channels possible	24 VAC/VDC 100 to 240 VAC	G9SA-301
5PST-NO	SPST-NC	1 channel or 2 channels possible	24 VAC/VDC 100 to 240 VAC	G9SA-501

### Emergency-stop OFF-delay units

Main contacts	OFF-delay contacts	Auxiliary contact	Number of input channels	OFF-delay time	Rated voltage	Order code
3PST-NO	DPST-NO	SPST-NC	1 channel or 2 channels possible	7.5 s	24 VAC/VDC 100 to 240 VAC	G9SA-321-T075
				15 s	24 VAC/VDC 100 to 240 VAC	G9SA-321-T15
				30 s	24 VAC/VDC 100 to 240 VAC	G9SA-321-T30

### Two-hand controller

Main contacts	Auxiliary contact	Number of input channels	Rated voltage	Order code
3PST-NO	SPST-NC	2 channels	24 VAC/VDC 100 to 240 VAC	G9SA-TH301

### Expansion unit

The expansion unit connects to a G9SA-301, G9SA-501, G9SA-321, or G9SA-TH301.

Main contacts	Auxiliary contact	Category	Order code
3PST-NO	SPST-NC	4	G9SA-EX301

### Expansion units with OFF-delay outputs

The expansion unit connects to a G9SA-301, G9SA-501, G9SA-321, or G9SA-TH301.

Main contact form	Auxiliary contact	OFF-delay time	Order code
3PST-NO	SPST-NC	7.5 s	G9SA-EX031-T075
		15 s	G9SA-EX031-T15
		30 s	G9SA-EX031-T30

## Specifications

### Power input

Item	G9SA-301/TH301 / G9SA-501 / G9SA-321-T_
Power supply voltage	24 VAC/VDC: 24 VAC, 50/60 Hz, or 24 VDC 100 to 240 VAC: 100 to 240 VAC, 50/60 Hz
Operating voltage range	85 to 110% of rated power supply voltage

### Inputs

Item	G9SA-301/321-T_ / TH301	G9SA-501
Input current	40 mA max.	60 mA max.

### Contacts

Item	G9SA-301/501/321-T_ / TH301/EX301/EX031-T_
	Resistive load (cosφ= 1)
Rated load	250 VAC, 5 A
Rated carry current	5 A

### Characteristics

Item	G9SA-301/TH301 / G9SA-501/321-T_ / G9SA-EX301/EX031-T_
Operating time	30 ms max. (not including bounce time)
Response time *1	10 ms max. (not including bounce time)
Durability	Mechanical 5,000,000 operations min. (at approx. 7,200 operations/hr)
	Electrical 100,000 operations min. (at approx. 1,800 operations/hr)
Minimum permissible load (reference value)	5 VDC, 1 mA
Ambient temperature	Operating: -25 to 55°C (with no icing or condensation)
	Storage: -25 to 85°C (with no icing or condensation)

\*1 The response time is the time it takes for the main contact to open after the input is turned OFF.



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