NO: SR-065   PRODUCT: SR102AM01
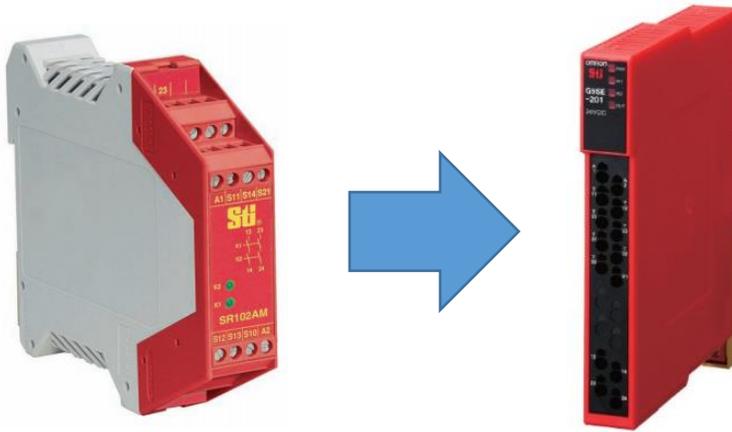DATE: May 2018   TYPE: Discontinuation Notice

The SR102AM01 Safety Monitoring Relay Unit will be discontinued; Replace with G9SE-201.

Discontinuation Date: September 1, 2018
Note: Date is subject to change based on raw materials and components availability at the factory.

Cautions on Applying Replacements

Recommended replacement Model	Appearance	Dimen-sions	Wire connection	Mounting Dimensions	Charac-teristics	Operation ratings	Operation methods
G9SE-201	-	-	*	*	*	*	**

** : Compatible
* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

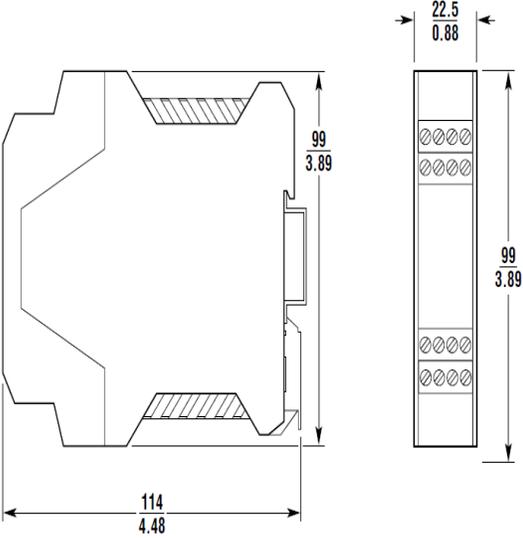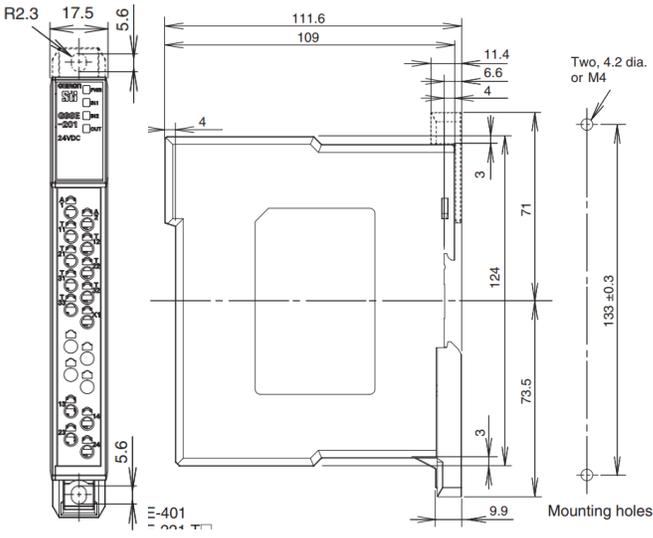See the detail of differences on the following pages

Affected Parts

Product Discontinuation Model	Recommended Replacement Model
SR102AM01	G9SE-201

OMRON

Overview Summary
[Appearance]

Discontinued Product SR102AM01	Replacement Product G9SE-201

[Dimensions and Mounting Dimensions]

| Discontinued Product SR102AM01	Replacement Product G9SE-201

[Wire Connection]

Discontinued Product SR102AM01
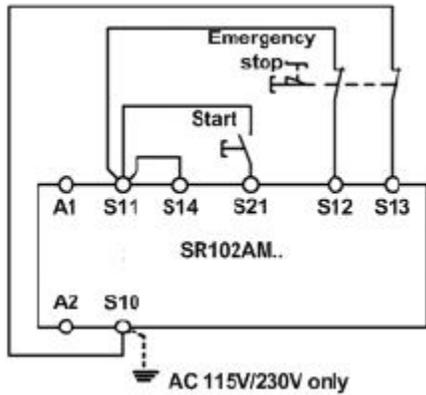
Two-channel emergency stop circuit with short circuit and earth fault monitoring.
(category 4, up to PL e)

Replacement Product G9SE-201

- Immediately removes power to motor M when emergency stop switch S1 is pressed.
- The power to motor M is kept removed until emergency stop switch S1 is released and reset switch S2 is pressed.
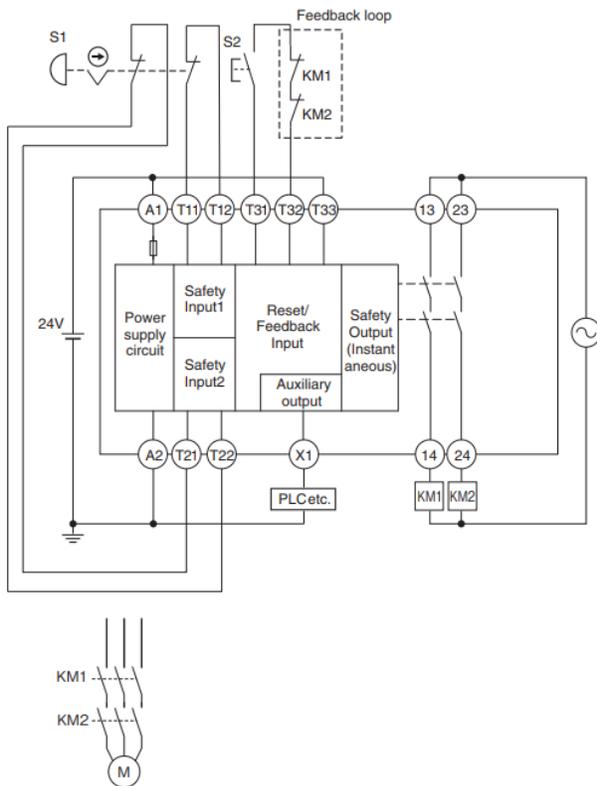
S1: Emergency stop switch
S2: Reset switch
KM1, KM2: Magnetic contactor
M: Motor

OMRON

Replacement Product (Continued)
G9SE-201

Wiring of inputs and outputs

Signal Name	Terminal Name	Description of operation	Wiring
Power supply input	A1, A2	The input terminals for power supply. Connect the power source to the A1 and A2 terminals.	Connect the power supply plus to the A1 terminal. Connect the power supply minus to the A2 terminal.
Safety input 1	T11, T12	To set Safety outputs in ON state, HIGH state signals must be input to both of Safety input 1 and Safety input 2. Otherwise Safety outputs cannot be in ON state.	
Safety input 2	T21, T22		
Reset/ Feedback input	T31, T32, T33	To set Safety outputs in ON state, ON state signal must be input to T33. Otherwise Safety outputs cannot be in ON state. *1	
		To set Safety outputs in ON state, the signal input to T32 must change from OFF state to ON state, and then to OFF state. Otherwise Safety outputs cannot be in ON state.	
Safety output	13-14, 23-24, 33-34, 43-44	Turns ON/OFF according to the state of safety inputs, Feedback/Reset inputs. During off-delayed state, safety outputs are not able to turn ON.	Keep these outputs Open when NOT used.
Off-delayed Safety output	37-38, 47-48	Off-delayed safety outputs. *2 Off-delay time is set by off-delay preset switch. When the delay time is set to zero, these outputs can be used as non-delay outputs.	
Auxiliary output	X1	Outputs a signal of the same logic as Safety outputs	

*1 Construct the safety system taking into account that in the Auto reset mode Safety outputs turn ON automatically when Safety inputs 1 and 2 turn ON.

*2 When the inputs of G9SE-221-T☐ are restored during off-delay time, G9SE-221-T☐ will operate as below. Depending on the reset mode.
 - Auto reset mode: Outputs turn off after off-delay time, then immediately turns on.
 - Manual reset mode: Outputs turn off after off-delay time, then turn on when reset input is given.

[Characteristics]

	Discontinued Product SR102AM01	Replacement Product G9SE-201
Rated supply voltage	24VAC/DC	24 VDC
Operating voltage range	±10%, 50-60 Hz	-15% to 10% of rated supply voltage
Rated power consumption	Approx. 1 VA	3 W max.
Safety Inputs	1 N/C or 2 N/C or 2 solid state	2 N/C
Outputs	2 N/O	2 N/O + 1 Aux.
Safety output	Inductive AC-15, 4 A/230 V Inductive DC-13, 2 A/24 V	Contact output 250 VAC 5 A (resistive load) 30 VDC 5 A (resistive load)
Auxiliary output	N/A	PNP transistor output Load current: 100 mA DC max.
Operating time (OFF to ON state)	N/A	100 ms Max.
Response time (ON to OFF state)	12 ms (75 ms by removing supply voltage)	15 ms Max.
Accuracy of OFF-delay time	N/A	Within plus or minus 10% of the set value
INPUTS		
Input current	N/A	5 mA Min.
ON voltage	N/A	11 VDC Min.
OFF voltage	N/A	5 VDC Max.
OFF current	N/A	1 mA Max.
Maximum cable length	N/A	100 m Max.
Reset input time	N/A	250 ms Min.
CONTACT OUTPUTS		
Contact resistance	N/A	100 mΩ
Mechanical durability	1×10^7 operations	5,000,000 operations Min.
Electrical durability	N/A	50,000 operations Min.
Switching specification Inductive load (IEC/EN60947-5-1)	Inductive AC-15, 4 A/230 V Inductive DC-13, 2 A/24 V	AC15: 240 VAC 2 A DC13: 24 VDC 1.5 A
Minimum applicable load	20 mA/24 V	24 VDC 4 mA
Conditional short-circuit current (IEC/EN60947-5-1)	N/A	100 A
Pollution degree	N/A	2
Over voltage category	N/A	Safety output: Class III, the others:

(IEC/EN60664-1)		Class II
INSULATION SPECIFICATION		
Impulse withstand voltage (IEC/EN60947-5-1)		
Between input and output	N/A	6 kV
Between different poles of output	N/A	6 kV (between 13-14/23-24 and 33-34/43-44 (37-38/47-48)) 4 kV (between 13-14 and 23-24, between 33-34 (37-38) and 43-44 (47-48))
Dielectric strength		
Between input and output	N/A	2,200 VAC
Between different poles of output	N/A	1,500 VAC
Insulation resistance	N/A	100 MΩ
Vibration resistance	N/A	Frequency:10 to 55 to 10 Hz Amplitude:0.35 mm half amplitude (0.7 mm double amplitude)
Mechanical shock resistance		
Destruction	N/A	300 m/s^2
Malfunction	N/A	100 m/s^2
Surrounding Air Temperature	-15 to 60°C (5 to 140°F)	-10 to 55°C (No freezing or condensation)
Ambient humidity	93% RH at 104°C (219°F)	25% to 85%RH
Degree of protection	IP20 terminals, IP40 (NEMA1) housing	IP20
Weight	230 g (8.1 oz.)	approx. 150 g

Specifications in this product news are as of the issue date and are subject to change without notice.
Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.