

## Enabling Grip Switch with Distinct Feel for Three Easily Discernible Positions

- The difficult task of configuring safety circuits is now easily achieved by combining the A4EG with the G9SX-GS.
- In addition to the standard models, the lineup also includes models with an emergency stop switch and models with a momentary operation switch.
- An optional Holding Key (sold separately) provides a versatile method for selecting modes.
- Equipped with conduit connector.



## Specifications

### Standards and EC Directives

#### Compliance with EC Directives and International Standards

- Low Voltage Directive
- GS-ET-22

#### Certified Standards

Certifying body	Standard	File No.
TÜV SÜD	EN 60947-5-1 (certified direct opening)	Ask your Omron representative.
UL *	UL 508, CSA C22.2 No.14	E76675
CQC (CCC)	GB 14048.5	Pending approval

Certification for CSA C22.2 No. 14 by UL is indicated by the registration mark.

### Certified Standard Ratings (Enabling Switch Section)

#### TÜV (EN 60947-5-1)

Utilization category	AC-15	DC-13
Rated operating current (Ie)	0.75 A	0.55 A
Rated operating voltage (Ue)	240 V	125 V

Note: Use a 10 A fuse type gI or gG that conforms to IEC 60269 as the short-circuit protection device. The fuse is not built into the Switch

#### UL/CSA (UL 508, CSA C22.2 No.14), CCC (GB 14048.5)

- 24 VDC, 0.3 A (inductive load)
- 125 VAC, 1 A (resistive load)

## Ratings

	Enabling switch	Emergency stop switch (A4EG-BE2R041 only)	Pushbutton (A4EG-BM2B041 only)
Rated insulation voltage	250 V		---
Rated ON current	2.5 A	5 A	0.1 A
Rated load	24 VDC, 0.3 A (inductive load) 125 VAC, 1 A (resistive load)  EN certification rating: AC-15 0.75 A/240 V DC-13 0.55 A/125 V	General rating: 125 VAC, 5 A (resistive load) 250 VAC, 3 A (resistive load) 30 VDC, 3 A (resistive load)  UL and cUL rating: 125 VAC, 5 A (inductive load, power factor: 0.75 to 0.8) 250 VAC, 3 A (inductive load, power factor: 0.75 to 0.8) 30 VDC, 3 A (resistive load)  EN certification rating: AC-12 3 A/250 V DC-12 3 A/30 V	General rating: 125 VAC, 0.1 A (resistive load) 8 VDC, 0.1 A (resistive load) 14 VDC, 0.1 A (resistive load) 30 VDC, 0.1 A (resistive load)  UL and cUL rating: 125 VAC, 0.1 A (resistive load) 30 VDC, 0.1 A (resistive load)  EN certification rating: AC-12 0.1 A/125 V DC-12 0.1 A/30 V
Minimum applicable load	24 VDC, 4 mA		5 VDC, 1 mA

## Specifications

### Characteristics

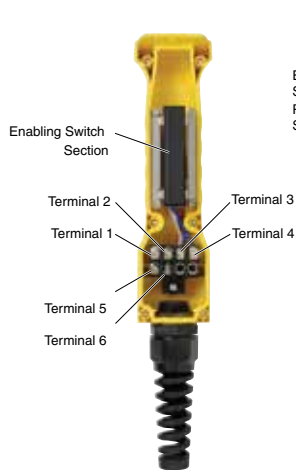
	Enabling Switch	Emergency Stop Switch (A4EG-BE2R041 only)	Pushbutton (A4EG-BM2B041 only)
Degree of Protection:	IP66	IP65	IP65
Operating Section Strength:	Operating direction: 200 N, 1 min.	Operating direction: 367 N, 1 min. Rotating direction: 0.49 N-m, 1 min.	Operating direction: 50 N, 1 min.
Cable Pull Strength:	30 N, 1 min.	30 N, 1 min.	30 N, 1 min.
Allowable Operating Frequency			
Electrical:	20 operations/min. max.	10 operations/min. max. (set/reset for one operation)	60 operations/min. max.
Mechanical:	20 operations/min. max.	10 operations/min. max. (set/reset for one operation)	120 operations/min. max.
Electrical Durability (rated load):	100,000 operations min.	100,000 operations min. (set/reset for one operation)	100,000 operations min.
Mechanical Durability:	OFF-ON-OFF (direct opening): 100,000 operations min. OFF-ON: 1,000,000 operations min.	100,000 operations min. (set/reset for one operation)	2,000,000 operations min.
Dielectric Strength:			
Between terminals of the same polarity	2,500 VAC, 50/60 Hz, 1 min. (impulse voltage)	1,000 VAC, 50/60 Hz, 1 min.	1,000 VAC, 50/60 Hz, 1 min.
Between terminals of different polarities	2,500 VAC, 50/60 Hz, 1 min. (impulse voltage)	2,000 VAC, 50/60 Hz, 1 min.	2,000 VAC, 50/60 Hz, 1 min.
Between each terminal and non-current carrying metallic parts	2,500 VAC, 50/60 Hz, 1 min. (impulse voltage)	2,000 VAC, 50/60 Hz, 1 min.	2,000 VAC, 50/60 Hz, 1 min.
Insulation Resistance:	100 MΩ min. (at 500 VDC)		
Vibration Resistance:	Malfunction: 1.5 mm double amplitude, 10 to 55 Hz		
Shock Resistance:	Malfunction: 150 m/s <sup>2</sup> max.		
Ambient Operating Temperature:	-10 to 55°C (with no icing or condensation)		
Ambient Operating Humidity:	35% to 85%		
Ambient Storage Temperature:	-25 to 65°C (with no icing or condensation)		
Protection Against Electric Shock:	Class II (double insulation)		
Pollution Degree (Operating Environment):	3 (EN 60947-5-1)		
Conditional Short-Circuit Current:	100 A (EN 60947-5-1)		

Note: The timing of contact outputs for two or more circuits is not synchronized. Confirm performance before application.  
Specifications are subject to change without notice.

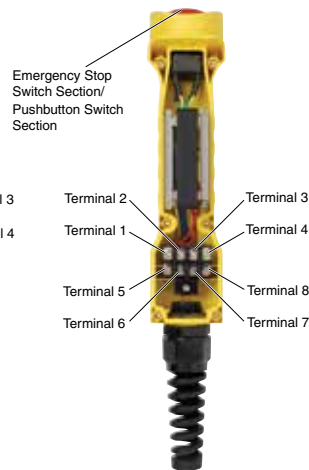
## Structure and Nomenclature

### Structure

#### A4EG-C000041



#### A4EG-BE2R041 A4EG-BM2B041



### Contact Forms

#### Operating Patterns

##### A4EG-C000041

Operation	Terminal Number	Position 1 ▼	Position 2 ▼	Position 3 ▼
Enable output	1 to 2			<input type="checkbox"/>
	3 to 4			<input type="checkbox"/>
Grip output	5 to 6			<input type="checkbox"/>

##### A4EG-BE2R041

Operation	Terminal Number	Position 1 ▼	Position 2 ▼	Position 3 ▼
Enable output	1 to 2			<input type="checkbox"/>
	3 to 4			<input type="checkbox"/>

Pushbutton Switch	Terminal Number	Operation	Contact
Emergency stop switch output	5 to 6 7 to 8	Operation (push)	ON → OFF
		Reset (turn reset)	OFF → ON

##### A4EG-BM2B041

Operation	Terminal Number	Position 1 ▼	Position 2 ▼	Position 3 ▼
Enable output	1 to 2			<input type="checkbox"/>
	3 to 4			<input type="checkbox"/>

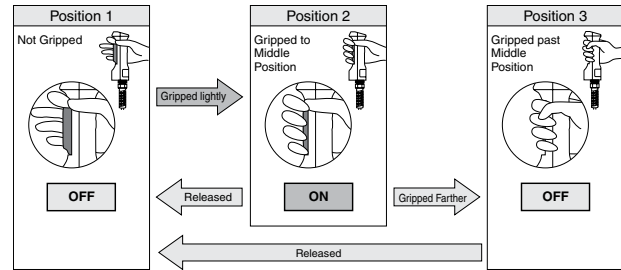
Pushbutton Switch	Terminal Number	Operation	Contact
Pushbutton switch output	5 to 6 (pushbutton switch A)*	Push	OFF → ON
	7 to 8 (pushbutton switch B)*	Push	OFF → ON

\*Refer to Dimensions for information on the positions of pushbutton switches A and B.

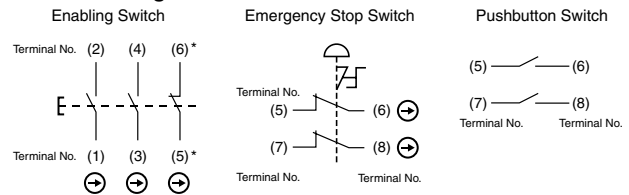
<input type="checkbox"/>	Open	ON: Closed
<input checked="" type="checkbox"/>	Closed	OFF: Open

- Notes: 1. The contact ON/OFF timing is not synchronized. Confirm performance before application.  
2. Direct opening only during grip.

#### Three Positions: OFF – ON – OFF



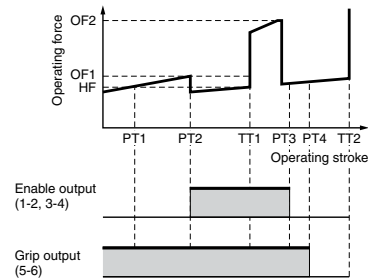
#### Contact Configurations



\*Terminal No. (5), (6): A4EG-C000041 only.

### Operating Characteristics

#### Chart (Enabling Switch Section)



#### Operating Stroke (Enabling Switch Section)

Operating Characteristics	Specified Value
Enable output (ON)	PT2 max.
Max. enable holding position	TT1
Enable direct opening position	PT3 max.
Max. stroke	TT2

#### Operating Force (Enabling Switch Section: Reference Values)

Operating Characteristics	Specified Value
Enable operating force	OF1 max.
Enable holding force	HF *
Grip operating force	OF2 max.

\*HF: Holding force

#### Operating Force

##### (Emergency Stop Switch Section: Reference Values)

Operating Characteristics	Specified Value
Operating force	OF max.
Reset force	RF max.

#### Operating Force

##### (Pushbutton Switch Section: Reference Value)

Operating Characteristics	Specified Value
Operating force	OF max.

## Dimensions

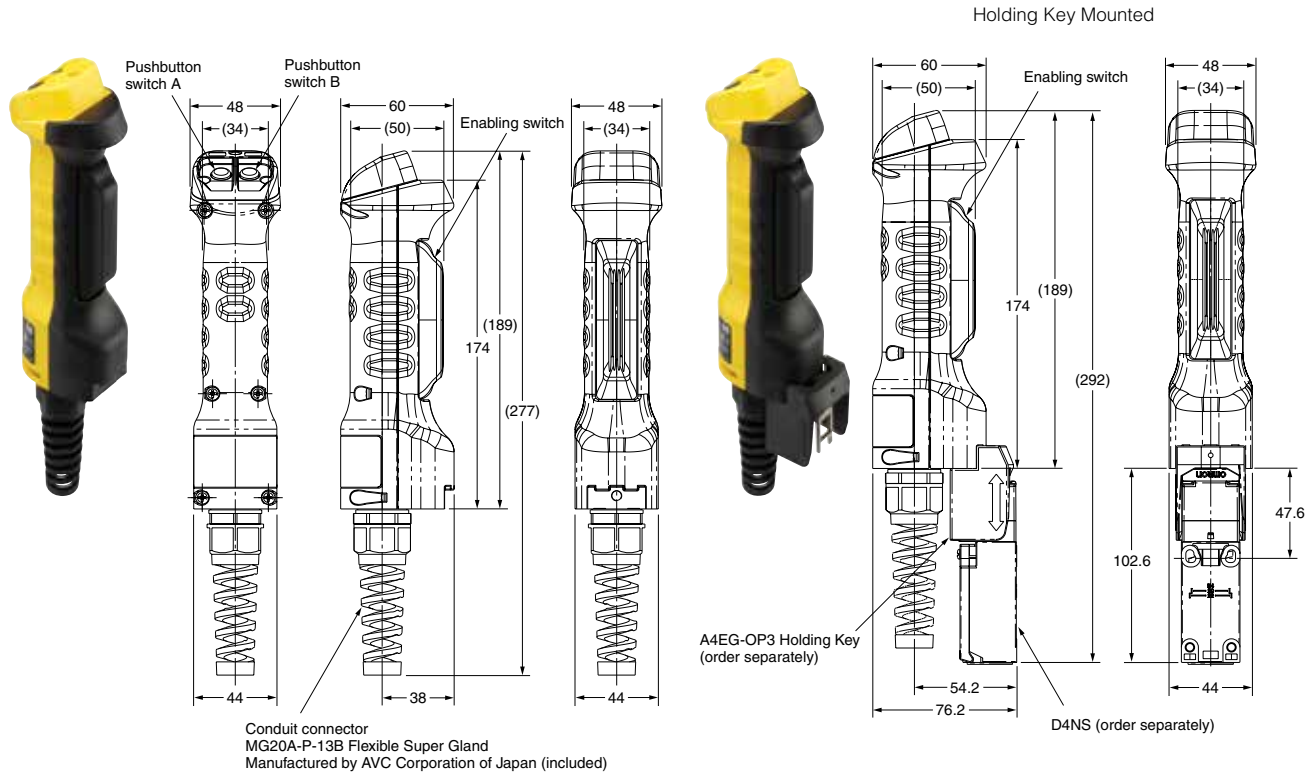
(mm)

### Structure (continued)

**A4EG-BM2B041**

**A4EG-C000041:** Dimensions are similar to A4EG-BM2B041 without Pushbutton Switch.

**A4EG-BE2R041:** Dimensions are similar to A4EG-BM2B041. The A4EG-BE2R041 has an Emergency Stop Switch instead of a Pushbutton Switch. See "Installation Manual" for A4EG-C000041 and A4EG-BE2R041 dimensions.

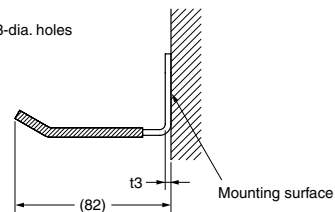
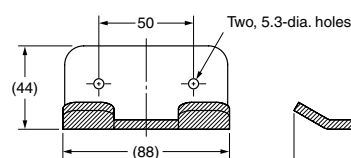


### Accessories (Order Separately)

## Rubber Cover (Replacement Part) A4EG-OP1



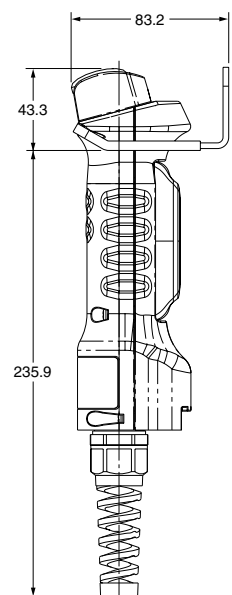
## Mounting Bracket (for Securing the A4EG) A4EG-OP2



**Holding Key  
A4EG-OP3**



### Enabling Grip Switch Mounted



Note: The screws are not included.

## Application Example

### Wiring Example

#### Settings

(For details, refer to section 3 of the G9SX User's Guide (Cat. No. Z255).)

G9SX-BC: Manual reset, cross fault detection: ON (category 4 wiring)

G9SX-GS: Manual reset, cross fault detection: ON (category 4 wiring),

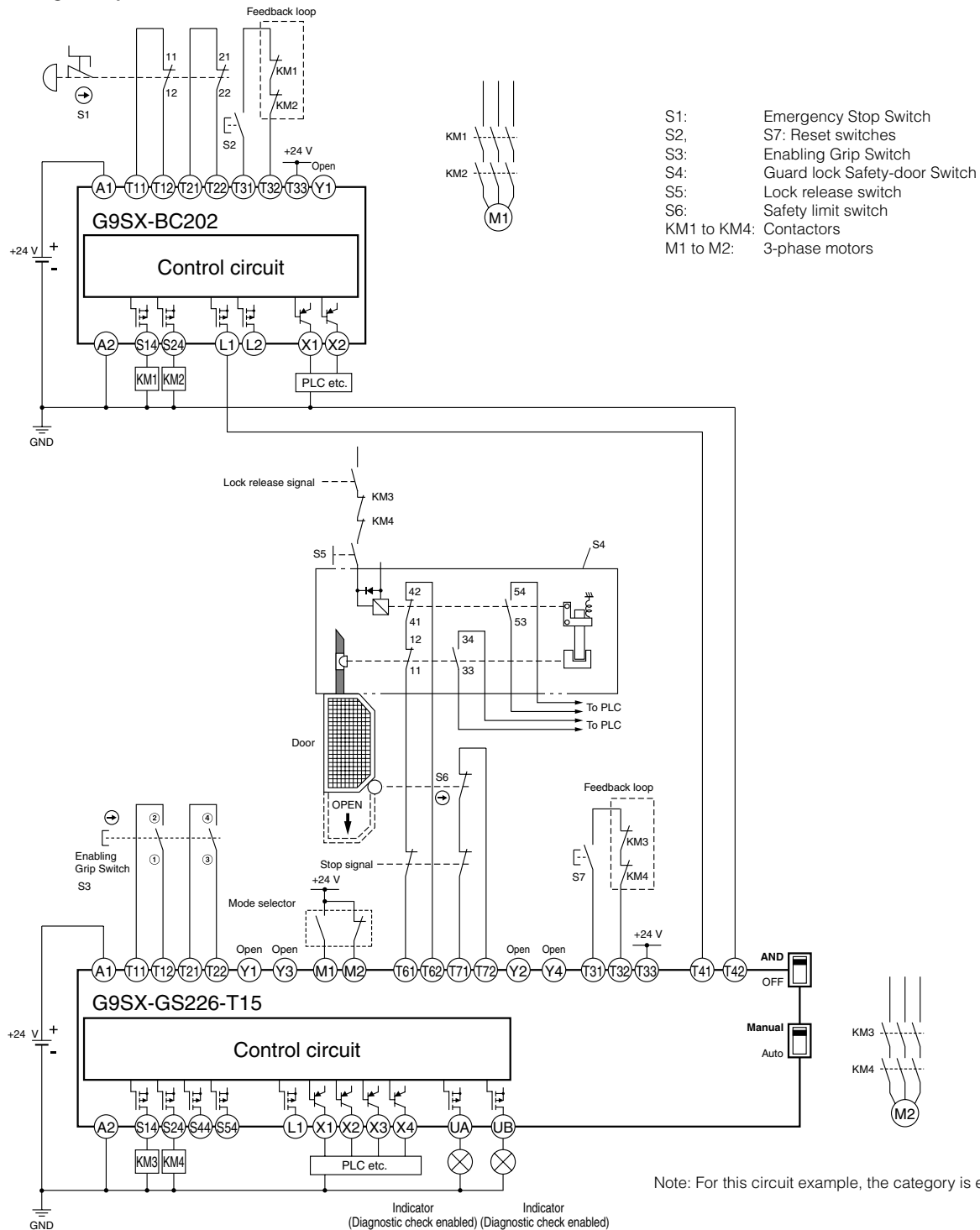
logical AND connection setting: AND

ON-delay time setting: Time is set.

Switching mode: Manual




External indicator diagnosis: Enabled

### Wiring Example




## Ordering

### Enabling Grip Switches

Appearance	Contact Form			Model
	Enabling Switch	Monitor Switch	Pushbutton Switch	
	Two contacts	1 NC (grip output)	None	A4EG-C000041
	Two contacts	None	Emergency stop switch (2 NC)	A4EG-BE2R041
	Two contacts	None	Momentary operation switch (2 NO)	A4EG-BM2B041

### Accessories (Order Separately)

Appearance	Item	Model
	Rubber Cover	A4EG-OP1
	Mounting Bracket (for securing the A4EG)	A4EG-OP2
	Holding Key	A4EG-OP3

## Ordering (continued)

### Cabling Accessories (Order Separately)

Appearance	Cables	Model
	SC09-9M340, cable, 4-pin Micro Male, 10 m	44509-0340
	SC09-9M330, cable, 4-pin Mini Male, 10 m	44509-0330
	SC09-9M320, cable, 8-pin Mini Male, 9 m	44509-0320
	SC09-9M310, cable, 10-pin Mini Male, 9 m	44509-0310
<b>Extension Cables</b>		
	SC09-10M140, Extension cord, 4-pin male mini / 4-pin female mini, 10 m	44509-0140
	SC09-10M142, Extension cord, 4-pin male micro / 4-pin female micro, 10 m	44509-0142
	SC09-10M180, Extension cord, 8-pin male mini / 8-pin female mini, 10 m	44509-0180
	SC09-10M110, Extension cord, 10-pin male mini / 10-pin female mini, 10 m	44509-0110
<b>Cable Receptacles</b>		
	SC09-10M540, 4-pin Female Mini, 1/2" NPT, 18 AWG, 24 in. leads	44509-0540
	SC09-10M542, 4-pin Female Micro, 1/2" NPT, 18 AWG, 24 in. leads	44509-0542
	SC09-10M580, 8-pin Female Mini, 1/2" NPT, 18 AWG, 24 in. leads	44509-0580
	SC09-10M510, 10-pin Female Mini, 1/2" NPT, 18 AWG, 24 in. leads	44509-0510
<b>Couplings</b>		
	MIN1-AC, Adapter Coupling (for use with 4-pin mini cables and extension cables)	44509-0210
	MIN2-AC, Adapter Coupling (for use with 8-pin mini cables and extension cables)	44509-0220
	MIN3-AC, Adapter Coupling (for use with 10-pin mini cables and extension cables)	44509-0230
<b>Shorting Plugs</b>		
	SC09-SP40, 4-pin male mini style shorting plug (pins 1-2 and 3-4 are shorted)	44509-0640
	SC09-SP42, 4-pin male micro style shorting plug (pins 1-2 and 3-4 are shorted)	44509-0642
	SC09-SP80, 8-pin male mini style shorting plug (pins 1-2 and 3-4 are shorted)	44509-0680
	SC09-SP10, 10-pin male mini style shorting plug (pins 1-2 and 3-4 are shorted)	44509-0610

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