

## 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)<br>125 VAC, 1 A (resistive load)<br><br>EN certification rating:<br>AC-15 0.75 A/240 V<br>DC-13 0.55 A/125 V | General rating:<br>125 VAC, 5 A (resistive load)<br>250 VAC, 3 A (resistive load)<br>30 VDC, 3 A (resistive load)<br><br>UL and cUL rating:<br>125 VAC, 5 A (inductive load, power factor: 0.75 to 0.8)<br>250 VAC, 3 A (inductive load, power factor: 0.75 to 0.8)<br>30 VDC, 3 A (resistive load)<br><br>EN certification rating:<br>AC-12 3 A/250 V<br>DC-12 3 A/30 V | General rating:<br>125 VAC, 0.1 A (resistive load)<br>8 VDC, 0.1 A (resistive load)<br>14 VDC, 0.1 A (resistive load)<br>30 VDC, 0.1 A (resistive load)<br><br>UL and cUL rating:<br>125 VAC, 0.1 A (resistive load)<br>30 VDC, 0.1 A (resistive load)<br><br>EN certification rating:<br>AC-12 0.1 A/125 V<br>DC-12 0.1 A/30 V |
| Minimum applicable load  | 24 VDC, 4 mA                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                          | 5 VDC, 1 mA                                                                                                                                                                                                                                                                                                                     |

## Specifications

### Characteristics

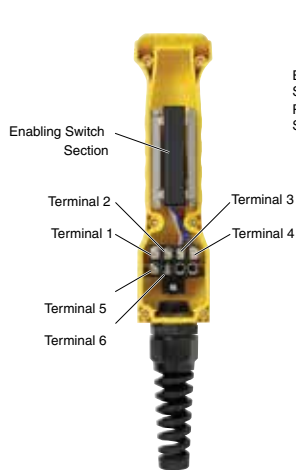
|                                                               | Enabling Switch                                                                              | Emergency Stop Switch<br>(A4EG-BE2R041 only)                               | Pushbutton<br>(A4EG-BM2B041 only) |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------|
| Degree of Protection:                                         | IP66                                                                                         | IP65                                                                       | IP65                              |
| Operating Section Strength:                                   | Operating direction: 200 N, 1 min.                                                           | Operating direction: 367 N, 1 min.<br>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.<br>(set/reset for one operation)                   | 60 operations/min. max.           |
| Mechanical:                                                   | 20 operations/min. max.                                                                      | 10 operations/min. max.<br>(set/reset for one operation)                   | 120 operations/min. max.          |
| Electrical Durability (rated load):                           | 100,000 operations min.                                                                      | 100,000 operations min.<br>(set/reset for one operation)                   | 100,000 operations min.           |
| Mechanical Durability:                                        | OFF-ON-OFF (direct opening):<br>100,000 operations min.<br>OFF-ON: 1,000,000 operations min. | 100,000 operations min.<br>(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.<br>(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.<br>(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.<br>(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.

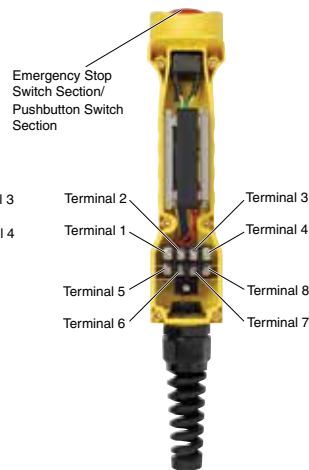
## Structure and Nomenclature

### Structure

#### A4EG-C000041



#### A4EG-BE2R041 A4EG-BM2B041



### Contact Forms

#### Operating Patterns

##### A4EG-C000041

| Operation     | Terminal Number | Position 1<br>▼ | Position 2<br>▼ | Position 3<br>▼          |
|---------------|-----------------|-----------------|-----------------|--------------------------|
| 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<br>▼ | Position 2<br>▼ | Position 3<br>▼          |
|---------------|-----------------|-----------------|-----------------|--------------------------|
| 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          | Operation (push)   | ON → OFF |
|                              | 7 to 8          | Reset (turn reset) | OFF → ON |

##### A4EG-BM2B041

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

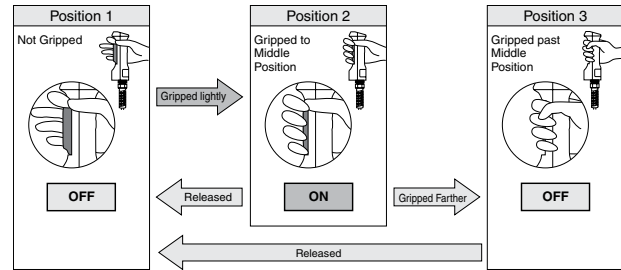
| Pushbutton Switch        | Terminal Number                  | Operation | Contact  |
|--------------------------|----------------------------------|-----------|----------|
| Pushbutton switch output | 5 to 6<br>(pushbutton switch A)* | Push      | OFF → ON |
|                          | 7 to 8<br>(pushbutton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

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

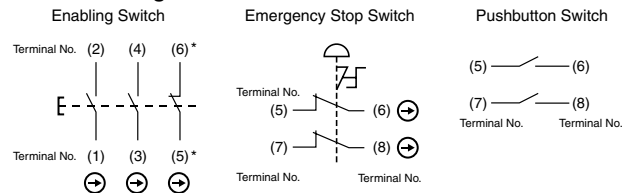
|                                     |        |            |
|-------------------------------------|--------|------------|
| <input type="checkbox"/>            | Open   | ON: Closed |
| <input checked="" type="checkbox"/> | Closed | OFF: Open  |

- 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



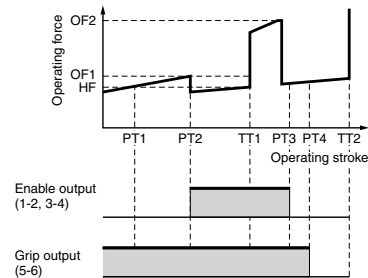
#### Contact Configurations



\*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

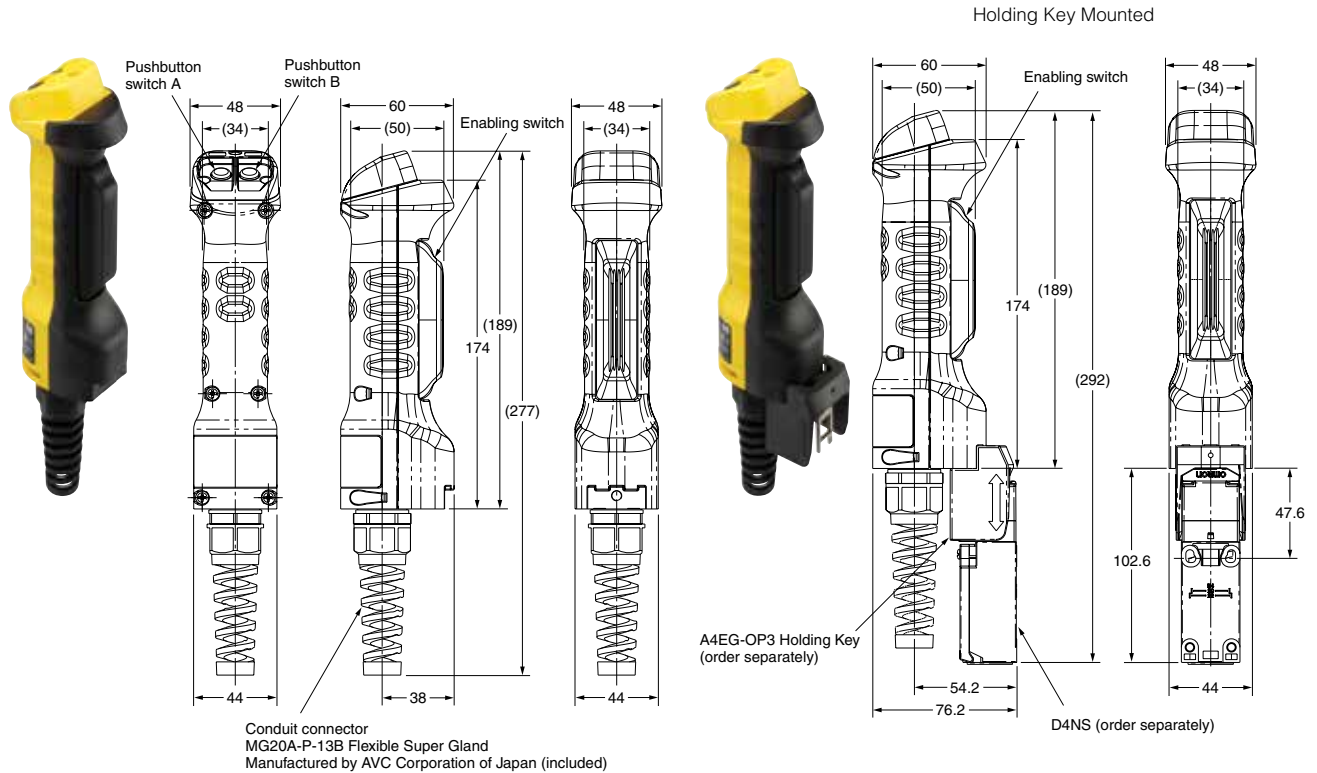
**(mm)**

### 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.

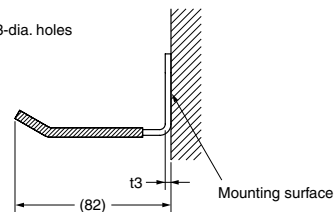
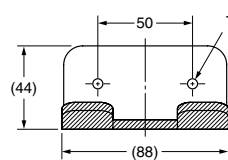


### Accessories (Order Separately)

## Rubber Cover (Replacement Part) A4EG-OP1



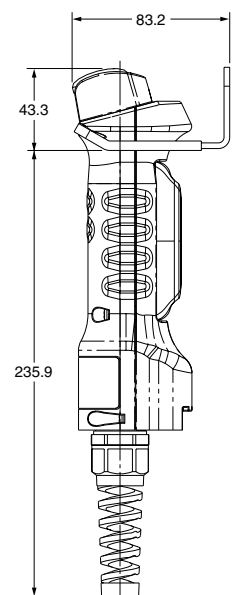
## Mounting Bracket (for Securing the A4EG) A4EG-OP2



**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),

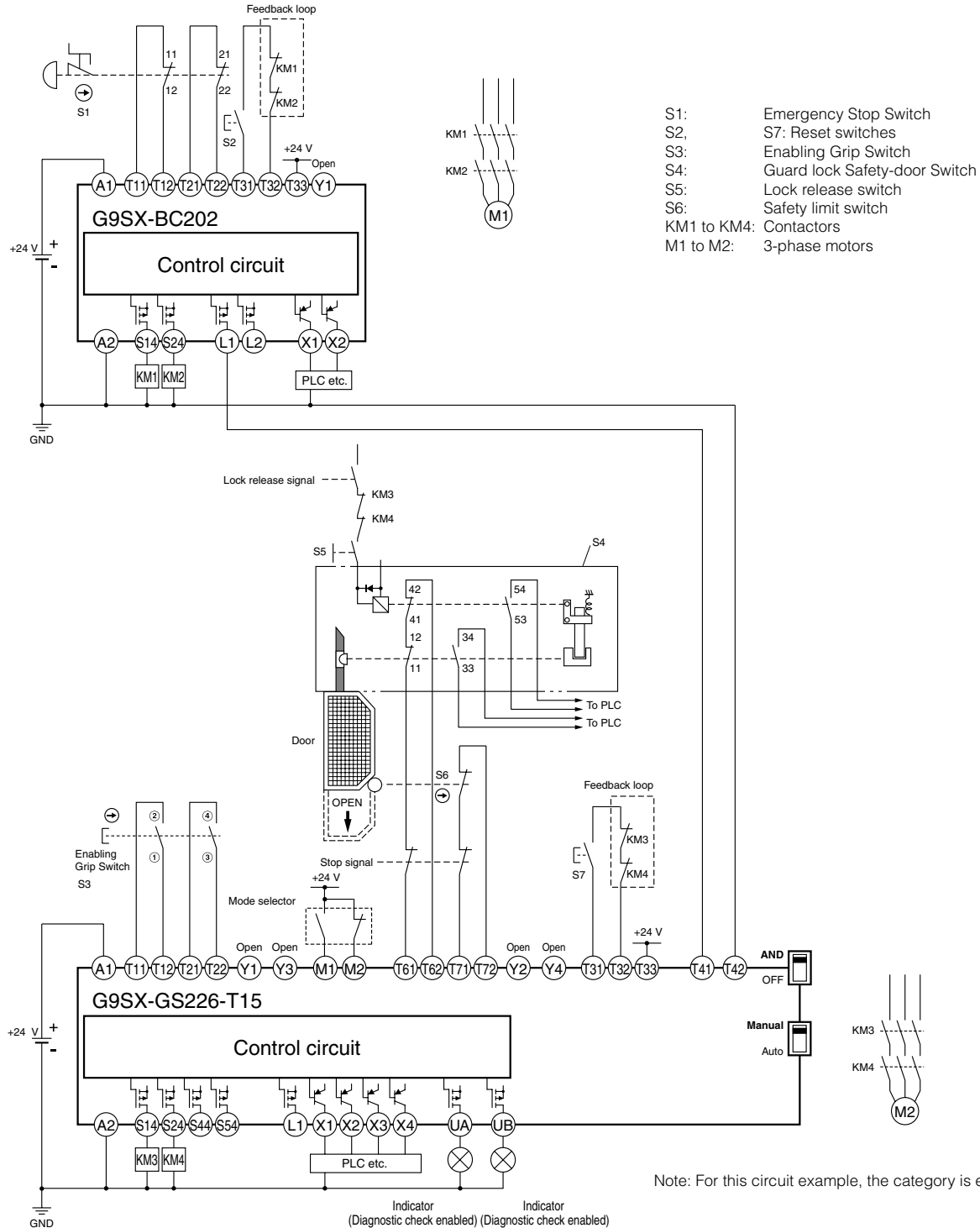
logical AND connection setting: AND

ON-delay time setting: Time is set.

Switching mode: Manual

External indicator diagnosis: Enabled

### Wiring Example



## Ordering

### Enabling Grip Switches

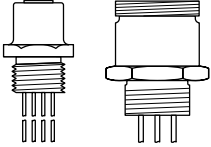
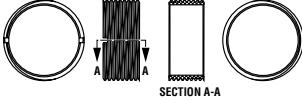
| Appearance                                                                        | Contact Form    |                    |                                   | Model        |
|-----------------------------------------------------------------------------------|-----------------|--------------------|-----------------------------------|--------------|
|                                                                                   | 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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1. **Offer; Acceptance.** These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "Products") by Omron Electronics LLC and its subsidiary companies ("Omron"). Omron objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
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  - d. Delivery and shipping dates are estimates only; and
  - e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
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1. **Suitability of Use.** Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given:
  - (i) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
  - (ii) Use in consumer products or any use in significant quantities.
  - (iii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
  - (iv) Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this Product.
 NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON'S PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
2. **Programmable Products.** Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.
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