

## 3SU15 holders

### 8.1 Holders

The holders are used to secure the actuating or signaling elements and the contact module or LED module. The holders are designed for mounting in front plates with a plate thickness of 1 to 6 mm.

When delivered, the holders are set to a control panel thickness of approximately 4.5 mm. They are placed in the ↑ arrow direction from the rear onto the actuating and signaling elements. The fastening screw is located at the top. If they are to be mounted on a control panel that is > 4.5 mm thick, you must adjust the fastening screw of the holder before you install the holder.

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#### Note

##### Note the maximum permissible front plate thickness!

When label holders, protective caps or similar accessories are used, it is important to remember that the maximum permissible front plate thickness must be reduced by the plate thickness of the relevant accessory.

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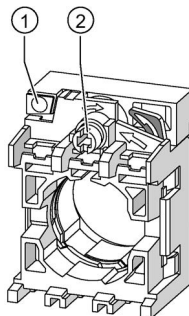
#### Tool

For securing, we recommend a size 2 screwdriver (cross-tip DIN ISO 87641PZD1 or flat-head DIN ISO 2380-1 A/B 1 x 4.5). The tightening torque is 1.0 to 1.2 Nm.

#### Grounding of the front plate

If you mount a metal actuator on a metal front plate using a metal holder, the actuator is grounded via the tip of the fastening screw. This enables grounding via the connection on the front plate.

If the metal holder is used to be used several times, grounding via the grounding stud is recommended!



- ① Hole for grounding stud (accessory: 3SU1950-0KK80-0AA0)
- ② Fastening screw

**NOTICE**

**Mounting in front plates / enclosures made of electrically non-conductive material**

If you use an enclosure made of plastic, you must loop a grounding cable ① through the metal holders, and connect it to ground by means of a grounding stud (3SU1950-0KK80-0AA0).

**⚠ CAUTION**

**Risk of injury**

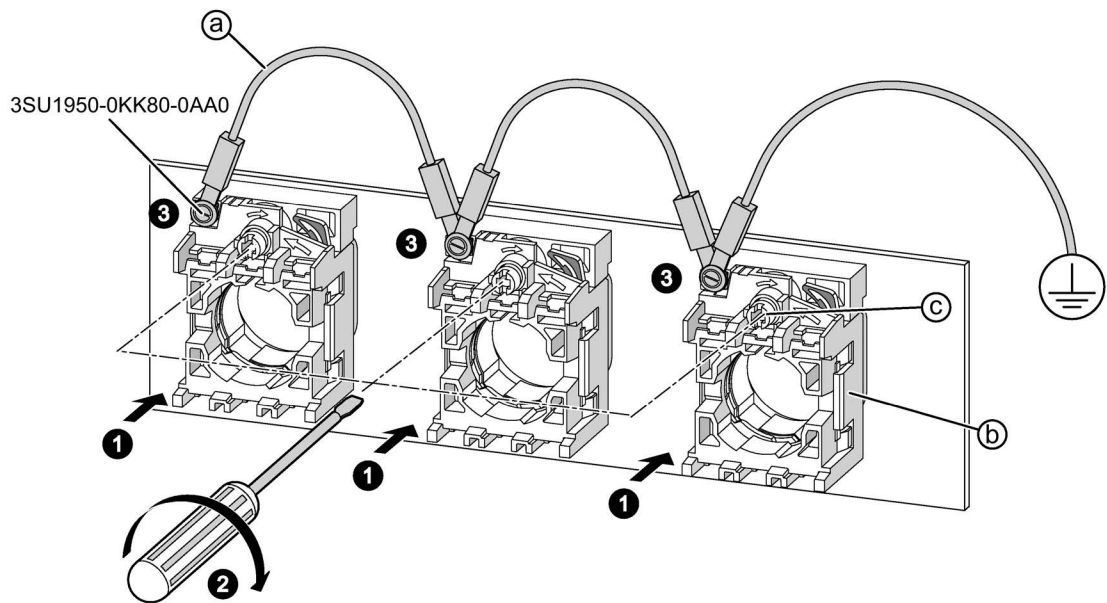
To ensure secure connection of the grounding cable, the grounding studs (3SU1950-0KK80-0AA0) must be fastened with ring cable lugs.

The grounding stud is not included in the scope of supply and must be ordered separately. For information, please refer to Chapter "Accessories (Page 385)".

**Note**

The operator is responsible for checking that the protective measure (grounding) is effective.

**Procedure**



1. Attach the holder (b) to the actuating element from behind.
2. Tighten the holder screw (c).
3. Secure the grounding cable (a) with ring cable lugs to the grounding stud (3SU1950-0KK80-0AA0), tightening torque: 0.8 - 1.0 Nm.

### Module slot position

Holders made of metal or plastic and with 3 or 4 slots for contact or LED modules are available.

The module slot positions (contact or LED modules) are indicated on top of the holder. The large digits designate the modules that are snapped directly onto the holder. The small digits indicate the position of stacked modules.

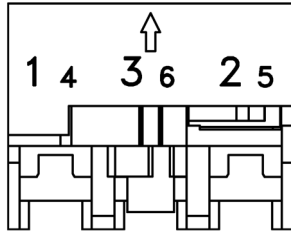


Figure 8-1 Marking of slot positions on the 3-slot holder

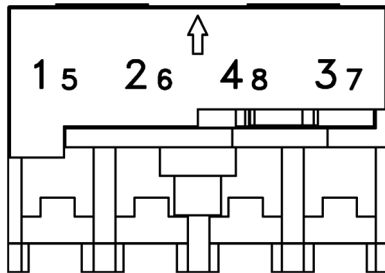



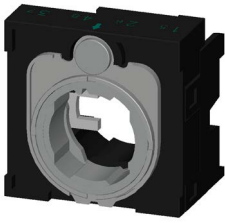

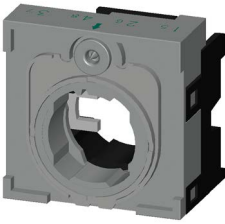
Figure 8-2 Marking of slot positions on the 4-slot holder

**Assignment of the holders to the actuating and signaling elements**

The following assumptions apply when assigning holders to the actuating elements and signaling elements:

Front ring material	Collar material	Bore diameter	Holder (plastic)	Holder (metal)
Plastic	Plastic	22.5 mm	✓	✓
Metal, matte	Plastic	22.5 mm	✓	✓
Metal	Metal	22.5 mm	---	✓
Metal, matte	Metal	30.5 mm	---	✓

**Overview of holders without modules**

Material	3-slot holder ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221520">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221520</a> )	4-slot holder ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221520">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221520</a> )
Plastic	 3SU1500-0AA10-0AA0	 3SU1500-0BA10-0AA0
Metal	 3SU1550-0AA10-0AA0	 3SU1550-0BA10-0AA0

You can find information on the pre-assembled holders with modules in Chapter "Holders with modules (Page 199)".

## 8.2 Holders with modules

### Overview of holders with contact module

These variants are preassembled. You need only snap them onto the actuator, tighten the fastening screws and connect the cables.

You can find information about the contact modules used in Chapter "Contact modules for front plate mounting (Page 166)".

Holder position 1	Holder position 2	Holder position 3	Article number
<b>Plastic</b>			
Siemens Industry Mall ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221521">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221521</a> )			
3SU1400-1AA10-1BA0	—	—	3SU1500-1AA10-1BA0
3SU1400-1AA10-1CA0	—	—	3SU1500-1AA10-1CA0
3SU1400-1AA10-1BA0	—	3SU1400-1AA10-1BA0	3SU1500-1AA10-1NA0
<b>Metal</b>			
Siemens Industry Mall ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221521">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221521</a> )			
3SU1400-1AA10-1BA0	—	—	3SU1550-1AA10-1BA0
3SU1400-1AA10-1CA0	—	—	3SU1550-1AA10-1CA0
3SU1400-1AA10-1BA0	—	3SU1400-1AA10-1BA0	3SU1550-1AA10-1NA0

3SU1400-1AA10-1BA0: Contact module 1NO normally open contact

3SU1400-1AA10-1CA0: Contact module 1NC normally closed contact

### Overview of holders (plastic) with 1 contact and LED module

These variants are preassembled. You need only snap them onto the actuator, tighten the fastening screws and connect the cables.

The LED module included in the scope of supply is a wide-voltage module with a voltage range from 6 to 24 V AC/DC.

You can find information on the contact and LED modules used in Chapters "Contact modules for front plate mounting (Page 166)" and "LED modules for front plate mounting (Page 173)".

Holder position 1	Holder position 2	Holder position 3	Article number
<b>Plastic</b>			
Siemens Industry Mall ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221521">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221521</a> )			
3SU1400-1AA10-1BA0	—	3SU1401-1BG00-1AA0	3SU1501-1AG00-1BA0
3SU1400-1AA10-1CA0	—	3SU1401-1BG00-1AA0	3SU1501-1AG00-1CA0
3SU1400-1AA10-1BA0	3SU1400-1AA10-1BA0	3SU1401-1BG00-1AA0	3SU1501-1AG00-1NA0
3SU1400-1AA10-1BA0	—	3SU1401-1BG20-1AA0	3SU1501-1AG20-1BA0
3SU1400-1AA10-1CA0	—	3SU1401-1BG20-1AA0	3SU1501-1AG20-1CA0
3SU1400-1AA10-1BA0	3SU1400-1AA10-1BA0	3SU1401-1BG20-1AA0	3SU1501-1AG20-1NA0
3SU1400-1AA10-1BA0	—	3SU1401-1BG30-1AA0	3SU1501-1AG30-1BA0
3SU1400-1AA10-1CA0	—	3SU1401-1BG30-1AA0	3SU1501-1AG30-1CA0
3SU1400-1AA10-1BA0	3SU1400-1AA10-1BA0	3SU1401-1BG30-1AA0	3SU1501-1AG30-1NA0
3SU1400-1AA10-1BA0	—	3SU1401-1BG40-1AA0	3SU1501-1AG40-1BA0
3SU1400-1AA10-1CA0	—	3SU1401-1BG40-1AA0	3SU1501-1AG40-1CA0
3SU1400-1AA10-1BA0	3SU1400-1AA10-1BA0	3SU1401-1BG40-1AA0	3SU1501-1AG40-1NA0
3SU1400-1AA10-1BA0	—	3SU1401-1BG50-1AA0	3SU1501-1AG50-1BA0
3SU1400-1AA10-1CA0	—	3SU1401-1BG50-1AA0	3SU1501-1AG50-1CA0
3SU1400-1AA10-1BA0	3SU1400-1AA10-1BA0	3SU1401-1BG50-1AA0	3SU1501-1AG50-1NA0
3SU1400-1AA10-1BA0	—	3SU1401-1BG60-1AA0	3SU1501-1AG60-1BA0
3SU1400-1AA10-1CA0	—	3SU1401-1BG60-1AA0	3SU1501-1AG60-1CA0
3SU1400-1AA10-1BA0	3SU1400-1AA10-1BA0	3SU1401-1BG60-1AA0	3SU1501-1AG60-1NA0

3SU1400-1AA10-1BA0: Contact module 1NO normally open contact

3SU1400-1AA10-1CA0: Contact module 1NC normally closed contact

3SU1401-1BG.0-1AA0: LED module

You can find further information on the holders in Chapter "Holders (Page 42)".

## 3SU18 enclosures

The enclosed pushbuttons and indicator lights are available with conventional controls as well as for connection to AS-Interface.

The following versions of the 3SU18 enclosure are available:

- Empty enclosures with 1 to 6 command points (the installed components must be ordered separately)
- Enclosures with standard fittings with 1 to 3 command points
- Enclosures with customized fittings with 1 to 6 command points
- Two-hand operation consoles

### 9.1 Enclosures for actuating and signaling elements

#### Enclosures

For the 3SU1 actuating elements and signaling elements, plastic enclosures and metal enclosures with 1, 2, 3, 4 or 6 command points are available.

The cable entry is on the top or bottom of the enclosure front by means of a metric M20 or M25 cable gland.

The enclosures are available in the following colors:

- Top:
  - Gray
  - Yellow
- Lower part:
  - Black

The enclosures are available for devices with diameter 22.5 mm

Enclosures are available in different variants according to the following features:

- Empty enclosure and enclosure with standard fittings
- With and without labeling fields
- With protective collar

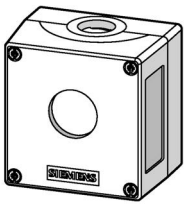
### 9.1.1 Overview of empty enclosures

#### Enclosures with raised cover

No. of command points	Article number
<b>Enclosure material plastic</b>	
Siemens Industry Mall ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522</a> )	
1	3SU1801-1AA00-0AA1
<b>Enclosure material metal</b>	
Siemens Industry Mall ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522</a> )	
1	3SU1851-1AA00-0AA1

#### Enclosure with command point in center

No. of command points	Article number
<b>Enclosure material plastic</b>	
Siemens Industry Mall ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522</a> )	
1	3SU1801-0AA00-0AAy
<b>Enclosure material metal</b>	
Siemens Industry Mall ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522</a> )	
1	3SU1851-0AA00-0AAy



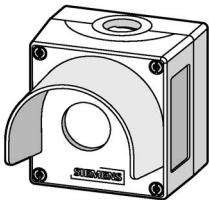
Typical diagram

y: 1 = color gray

y: 2 = color yellow

#### Enclosure with protective collar in center

No. of command points	Article number
<b>Enclosure material plastic</b>	
Siemens Industry Mall ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522</a> )	
1	3SU1801-0AA00-0ACy
<b>Enclosure material metal</b>	
Siemens Industry Mall ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522</a> )	
1	3SU1851-0AA0x-0ACy



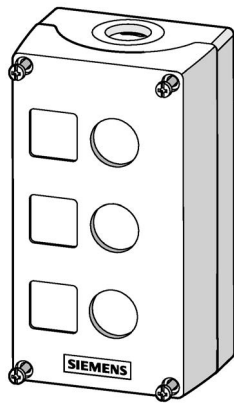
Typical diagram

y: 1 = color gray

y: 2 = color yellow



## Enclosure with recess for labeling plate

 <p>Typical diagram</p>	No. of command points	Article number
	<b>Enclosure material plastic</b>	
	Siemens Industry Mall ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522</a> )	
	1	3SU1801-0AA00-0ABy
	2	3SU1802-0AA00-0ABy
	3	3SU1803-0AA00-0AB1
	4	3SU1804-0AA00-0AB1
	6	3SU1806-0AA00-0AB1
	<b>Enclosure material metal</b>	
	Siemens Industry Mall ( <a href="http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522">http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221522</a> )	
	1	3SU1851-0AA00-0ABy
	2	3SU1852-0AA00-0ABy
	3	3SU1853-0AA00-0AB1
	4	3SU1854-0AA00-0AB1
6	3SU1856-0AA00-0AB1	

y: 1 = color gray

y: 2 = color yellow

**Note**

Not all combinations listed in the tables are available. In the case of special versions, please consult Technical Assistance, or initiate a P1000 request.

Actuating and signaling elements with nominal diameter 22.5 mm can be used.

Plastic enclosures are normally equipped with actuating or signaling elements made of plastic. Metal enclosures are equipped as standard with actuating or signaling elements made of metal. If otherwise equipped, please note the grounding information below.

**EMERGENCY STOP according to ISO 13850**

For control systems according to IEC 60204-1 or DIN EN 60204-1 (VDE 0113 Part 1), the mushroom pushbuttons of the 3SU10 series can be used as EMERGENCY STOP devices.