

3SU14 modules

7.1 Overview

7.1.1 Contact modules

Contact modules

Contact modules are used to switch circuits. The mechanical motion of the actuator is converted to electrical signals in interaction with the contact module when contacts are opened or closed.

The following variants of contact module are available:

- Spring-loaded terminals
- Screw terminals
- Front plate mounting
- Base mounting (enclosure mounting)
- 1-pole
- 2-pole
- Different functions (NC contact, NO contact and combinations thereof)

Color coding of the switching variants depends on the colors of the ID keys:

- 1NO → Green
- 1NC → Red
- 2NC → Red
- 2NO → Green
- 1NO1NC → Gray
- 1NC1NC → yellow

The contact modules bear terminal designations in accordance with EN 50013.

7.1.2 Contact modules for front plate mounting

Contact modules for front plate mounting

Contact modules for front plate mounting are installed on the rear face of a holder.

For further information refer to Chapters "Holders (Page 42)" and "Mounting (Page 186)"

Number of NO contacts	Number of NC contacts	Product function positive opening	Article number
Siemens Industry Mall (http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10221526)			
1	0	No	3SU1400-1AA10-xBA0
0	1	Yes	3SU1400-1AA10-xCA0
2	0	No	3SU1400-1AA10-xDA0
0	2	Yes	3SU1400-1AA10-xEA0
1	1	Yes	3SU1400-1AA10-xFA0
0	2 (1 contact for installation monitoring)	Yes	3SU1400-1AA10-xHA0 ¹⁾

x :1 = Screw terminal; 3 = Spring-loaded terminal

- ¹⁾ The 3SU1400-1AA10-.HA0 contact modules with installation monitoring can only be mounted at positions 1 and 2 on the holder when combined with 3SU1 actuating and signaling elements.

Exception: They can be mounted at all 3 holder positions when they are combined with a non-illuminated EMERGENCY STOP.

Operating principle of 3SU1400-1AA10-.HA0 contact modules with installation monitoring

The 3SU1400-1AA10-.HA0 contact module monitors proper installation or correct connection to an EMERGENCY STOP actuator. If the contact module is incorrectly installed or is disconnected from the actuator, the contact module initiates an automatic shutdown of the machine or system. As long as operation continues, it is assured that all necessary contacts are functioning properly.

Machinery Directive

In addition to increased safety, the 3SU1400-1AA10-.HA0 contact module also supports compliance with the Machinery Directive.

Initial commissioning

The circuits are closed and the contact module is ready for use only after completion of the function test prescribed by the directive, i.e. when activated for the first time.

During operation

The installation status of the contact module is continuously monitored. If an error occurs, the machine is shut down automatically.

7.1.3 Contact modules for base mounting (enclosure mounting)

The contact modules for enclosure mounting are installed in 3SU18 enclosures.

For further information refer to Chapter "3SU18 enclosures (Page 201)"

Number of NO contacts	Number of NC contacts	Product function positive opening	Article number
Siemens Industry Mall (http://mall.industry.siemens.com/mall/en/en/Catalog/Products/10227974)			
1	0	No	3SU1400-2AA10-xBA0
0	1	Yes	3SU1400-2AA10-xCA0

x: 1 = screw terminals

x: 3 = spring-loaded terminals

Minimum clearance for front plate mounting

When contact modules are mounted on the front plate, they must be installed at a minimum distance of 4 mm from the closest enclosure wall.

(Typical diagram)

