Overview

- For the simple and user-friendly connection of sensors and actuators to the S7-300 I/O modules
- For maintaining the wiring when replacing modules ("permanent wiring")
- With mechanical coding to avoid errors when replacing modules

Application

The front connector permits the simple and user-friendly connection of the sensors and actuators to the I/O modules.

Use of the front connector:

- Digital and analog I/O modules
- Compact CPUs from the S7-300 series

It comes in 20-pin and 40-pin variants.

Design

The front connector is plugged onto the module and covered by the front door. When replacing a module, only the front connector is disconnected, the time-intensive replacement of all wires is not necessary. In order to avoid errors when replacing modules, the front connector is coded mechanically when first plugged in. Then, it only fits in to the modules of the same type. This avoids, for example, an 230 V AC input signal accidentally being plugged into the 24 V DC module.

In addition, the connectors had a so-called set position. This is where the connector is snapped onto the module without contact first occurring. The connector clamps onto the module and can then easily be wired ("third hand"). After the wiring work, the connector is inserted further so that it makes contact.

The front connector contains:

- Contacts for the wiring connection.
- Strain relief for the wires.
- Reset key for resetting the front connector when replacing the module.
- Intake for coding element attachment. There are two coding elements on the modules with attachment. The attachments lock in when the front connector is connected for the first time.

The 40-pin front connector also comes with a locking screw for attaching and loosening the connector when replacing the module.

The front connectors are available for the following connection methods:

- Screw terminals
- Spring-loaded terminals
- Wire-piercing clamps (FastConnect)

Overview

- 用於方便地將傳感器和執行器連接到S7-300 I/O模塊
- 用於更換模塊時保持接線("固定式接線")
- 帶有用於防止更換模塊時出錯的機械編碼

Area of application

前連接器可方便地將傳感器和執行器連接到I/O模塊上
前連接器的使用

- 數字量和模擬量I/O模塊
- S7-300系列的緊湊型CPU

分成20針和40針

Design

前連接器插入到模塊上並通過前門蓋好，更換模塊時，只需斷開前連接器，不需要耗時的重新更換所有接線，避免在更換模塊時發生錯誤，在第一次插入時，前連接器要進行機械編碼，之後，只能插入相同類型的模塊，例如，這可避免將230VAC輸入信號錯誤地插入24VDC模塊中

另外，連接器可以設定位置。在此，可將連接器卡裝在模塊上而無需首先進行接觸。連接器被卡裝在模塊上，隨後可以方便地進行接線。接線後，將連接器插牢以便接觸良好。

前連接器包括：

- 連線觸點。
- 導線鬆緊件。
- 更換模塊時用於復位前連接器的複位鍵。
- 用於對附屬元件編碼的進口。不帶附件的模塊上有兩個編碼元件。首次連接前連接器時，附件會鎖入。

40針前連接器還具有一個更換模塊時用於安裝和鬆開連接器的固定螺絲。
前連接器具有下列連接方式：

- 螺釘型端子
- 彈簧型接線端子
- 導線絕緣刺破夾 (FastConnect)