

7.4 Interface module SB70

Article number

6DD1681-0AG2

Description

Interface module SB70 is used to adapt eight digital output signals from SIMATIC TDC to the signal level of the plant by means of relay circuits.

The voltage of the output signal may amount up to max. 120 V DC or AC.

Cable SC62 is used to connect the interface module to the SIMATIC TDC components (for further information, refer to the documentation for the SIMATIC TDC components).

Module design

- Enclosure for snap-on mounting to rails
- Ribbon cable connector (X1):
 - 8 pins for digital inputs
 - 2 pins for 1P, 1M
- Connector (X2), 2 x 12-pole
 - 8 terminals for the NO contact
 - 8 terminals for the NC contact
 - 8 terminals for the center contact
- 1 terminal pair X3: 1P, 1M (voltage on SIMATIC TDC side)
- Double test socket X5: 1P(+), 1M(G)
- LED displays for diagnostics
- Relays for the electrical isolation of inputs and outputs
- PTC thermistor as line protection downstream of the voltage supply on SIMATIC side

Voltage supply on SIMATIC side

The SIMATIC TDC voltage supply is fed to terminal X3:


Terminal X3	Voltage on SIMATIC TDC side
1P	+24 V
1M	0 V

Connect the cables using accessory kit SM11 "Power supply connector for interface modules" (article number: 6DD1680-0BB0)

The maximum conductor cross-section at terminal X3 is 2.5 mm².

Note

When wiring the supply voltage, observe the “Installation and EMC Directives” chapter in the User Manual.

 WARNING
Isolation
Safe electrical isolation is guaranteed only between the inputs and outputs
The system side (rack including 24V power supply) is safely isolated from hazardous voltages on plant side (8 output signals).
The output circuits are only isolated galvanically.
The output circuits on plant side are only isolated galvanically. Circuits consisting of combinations of safety extra-low voltage and hazardous voltages are not allowed.

Green LED

The voltage supply on SIMATIC TDC side is indicated by a green LED (P).

Red LED

The supply voltage on SIMATIC TDC side (1P, 1M) is short-circuited (fault).

Test socket

The SIMATIC TDC supply voltage is available on the double test socket X5 (G; +):

Double test socket X5	Voltage SIMATIC side
+ (1P of X3)	+24 V
G (1M of X3)	0 V