MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7961-1AA00-0AC0

IF 961-DIO INTERFACE SUBMODULE

Used with the applicable SIMATIC M7-300/400 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens technical documentation for 6ES7961-1AA00-0AC0

13.6 IF 961-DIO Interface Submodule for M7-300/400; (6ES7961-1AA00-0AC0)

Characteristics

The IF 961-DIO interface submodule has the following characteristics:

- 8 inputs, isolated in groups of 2

  Input level 24 VDC; 8.5 mA

  Input interrupt at rising and/or falling edge

  Input delay can be set in common for all channels: approx. 750 µs or approx. 3 ms

- 8 outputs, isolated in groups of 4

  Level 24 VDC; 0.1A

  Outputs short-circuit protected via electronic fuse.

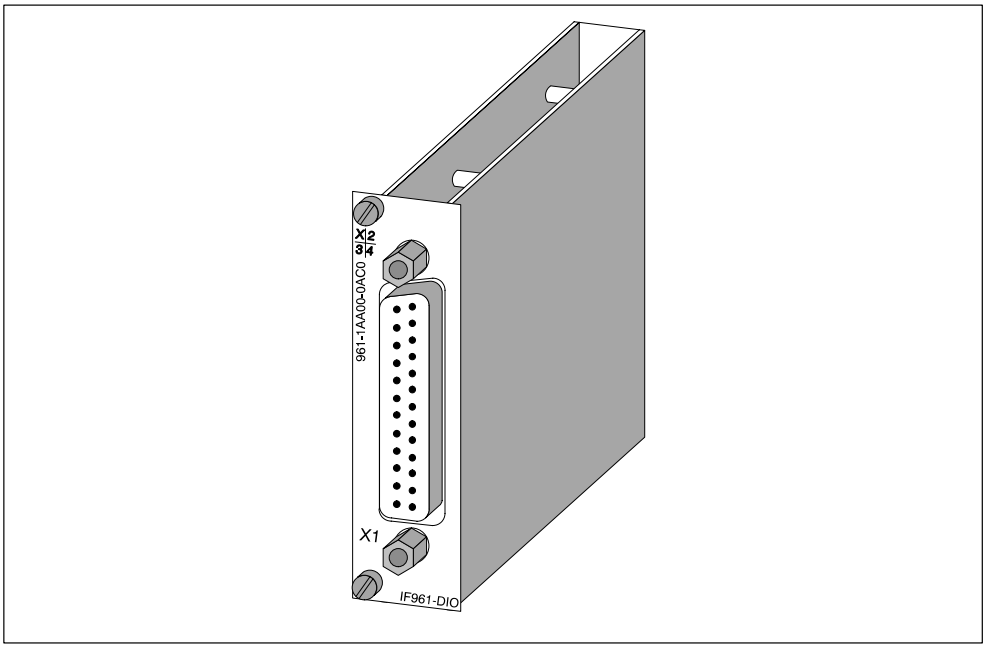


Figure 13-5 IF 961-DIO Interface Submodule

13.6.3 Technical Specifications

Technical Specifications

The IF 961-DIO interface submodule receives its supply voltage from the M7-400 programmable modules or from the M7-300/400 expansion modules. The current consumption given in the technical specifications is the consumption required for dimensioning the power supply, that is, the current consumption is referenced to 24 V in the M7-300 and to 5 V in the M7-400.

6ES7961-1AA00-0AC0	
Dimensions and Weight	
Dimensions W x H x D (mm) W x H x D (mm)	18.2 x 67 x 97
Weight	0.065 kg
Module-Specific Data	
Submodule ID	02_H
Number of inputs Number of outputs	8 8
Cable length	
• Unshielded	200 m at 750 µs, 600 m at 3 ms delay time
• Shielded	1000 m
Voltages, Currents, Potentials	
Nominal voltage Load current supply L+	24 VDC
Permissible nominal voltage range Load current supply L+	20.4 V to 28.8 V
Reverse polarity protection	No (fuse)
Current consumption L+	Dependent on wiring
Number of inputs that can be controlled simultaneously	8
Number of outputs that can be controlled simultaneously	8
Galvanic isolation	Yes (optocoupler)
• In groups of	2

Permissible potential differences	
• Between the M terminals of the groups	75 VDC 60 VAC
• Between the input (M terminal) and the central grounding point	75 VDC 60 VAC
• Isolation checked with	500 VDC
Supply voltage	Supplied from the M7-400 programmable modules or from the M7-300/400 expansion modules
Current consumption in the M7-300 (for dimensioning the 24 V current supply)	0.03 A
Current consumption in the M7-400 (for dimensioning the 5 V current supply)	0.085 A
Power losses of the module	2.4 W