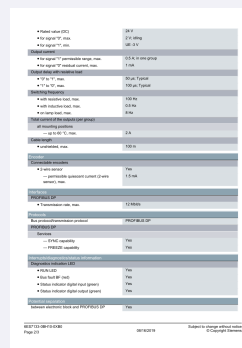


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

6ES7133-0BH10-0XB0

digital input and output module



PRODUCT	6ES7133-0BH10-0XB0
FAMILY	SIMATIC ET 200B distributed I/O
FUNCTION	digital input and output module
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from S7-300 documentation. This guide supplements the complete manufacturer manual and site procedure.

01 CONFIRM THE ORDERED CONFIGURATION

Usable Terminal Block	TB1/DC, TB1-4/DC, TB3/DC
Rated Supply	24 V; L1+, L3+; value at $t < 0.5$ s: 35 V
Supply Lower Limit	18.5 V
Supply Upper Limit	30.2 V
Current Consumption	70 mA; from L3+; logic
I^2t	0.05 A ² s; with starting current inrush

02 PREPARATION AND CONNECTION

- Confirm the complete 6ES7133-0BH10-0XB0 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

OFFICIAL INSTALLATION REFERENCE

• Rated value (DC) • for signal "0", max. • for signal "1", min.	24 V 2 V; idling UE -3 V
Output current	
• for signal "1" permissible range, max. • for signal "0" residual current, max.	0.5 A; in one group 1 mA
Output delay with resistive load	
• "0" to "1", max. • "1" to "0", max.	50 µs; Typical 100 µs; Typical
Switching frequency	
• with resistive load, max. • with inductive load, max. • on lamp load, max.	100 Hz 0.5 Hz 8 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 60 °C, max.	2 A
Cable length	
• unshielded, max.	100 m
Encoder	
Connectable encoders	
• 2-wire sensor — permissible quiescent current (2-wire sensor), max.	Yes 1.5 mA
Interfaces	
PROFIBUS DP	
• Transmission rate, max.	12 Mbit/s
Protocols	
Bus protocol/transmission protocol	PROFIBUS DP
PROFIBUS DP	
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
Interrupts/diagnostics/status information	
Diagnostics indication LED	
• RUN LED • Bus fault BF (red) • Status indicator digital input (green) • Status indicator digital output (green)	Yes Yes Yes Yes
Potential separation	
between electronic block and PROFIBUS DP	Yes

04

COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

05

CONTROLLED DOCUMENT

Official source	Siemens official product documentation
Product record	6ES7133-0BH10-0XB0
Manufacturer	S7-300
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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