

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS SIMATIC S7

6ES7131-1BL11-0XB0

32-CHANNEL DIGITAL INPUT BLOCK

Used with the applicable SIMATIC industrial automation configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens official manufacturer documentation



PROFIBUS-DP Distributed I/O

ET 200L-SC (continued)

Technical specifications ET 200L-SC electronics blocks		
Electronics blocks (digital inputs)	6ES7 131-1BH11-0XB0	6ES7 131-1BL11-0XB0
Number of inputs	16	32
Input voltage U _I	24 V DC	24 V DC
• Rated value	-30 to +5 V	-30 to +5 V
• for signal "0"	+13 to 30 V	+13 to 30 V
• for signal "1"	5 mA	5 mA
Input current with signal "1" typ.	2 to 4.5 ms	2 to 4.5 ms
Delay of inputs	1.5 Mbit/s	1.5 Mbit/s
Data transmission rate max.	100 m	100 m
Cable length max.	18.5 to 30 V	18.5 to 30 V
Sensor supply	0.5 A	0.5 A
• voltage	TB16L	TB32L
• current	Digital and analog with SIMATIC SC	Digital and analog with SIMATIC SC
Terminal block		
Expansion		
Electronics blocks (digital outputs)	6ES7 132-1BH11-0XB0	
Number of outputs	16	
Input voltage U _A	24 V DC	
• Rated value	2V (no-load)	
• with signal "0" max.	U _E -3V	
• with signal "1" min.		
Output current	1 mA	
• with signal "0" max.	0.5 A	
• with signal "1" max.	4A	
Aggregate count per group max.	Electronic	
Short circuit protection	1.5 Mbit/s	
Data transmission rate max.	100 m	
Cable length max.	100 Hz	
Switching frequency	0.5 Hz	
• with resistive load max.	8 Hz	
• with inductive load max.	TB16L	
• with lamps max.	Digital and analog with SIMATIC SC	
Terminal block		
Expansion		
Electronics blocks (mixed module)	6ES7 133-1BL10-0XB0	
Number of inputs	16	
Input voltage U _I	24 V DC	
• Rated value	-30 to +5 V	
• for signal "0"	+13 to 30 V	
• for signal "1"	5 mA	
Input current with signal "1" typ.	2 to 4.5 ms	
Delay of inputs	1.5 Mbit/s	
Cable length max.	100 m	
Data transmission rate max.		
Number of outputs	16	
Isolation	No	
Output voltage U _A	24 V DC	
• Rated value	2 V (no-load)	
• with signal "0" max.	U _E -3V	
• with signal "1" max.		
Output current	1 mA	
• with signal "0" max.	0.5 A	
• with signal "1" max.	4A	
Aggregate current per group max.	Electronic	
Short circuit protection	1.5 Mbit/s	
Data transmission rate max.	100 m	
Cable length max.	100 Hz	
Switching frequency	0.5 Hz	
• with resistive load max.	8 Hz	
• with inductive load max.	TB32L	
• with lamps max.	Digital and analog with SIMATIC SC	
Terminal block		
Expansion		

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