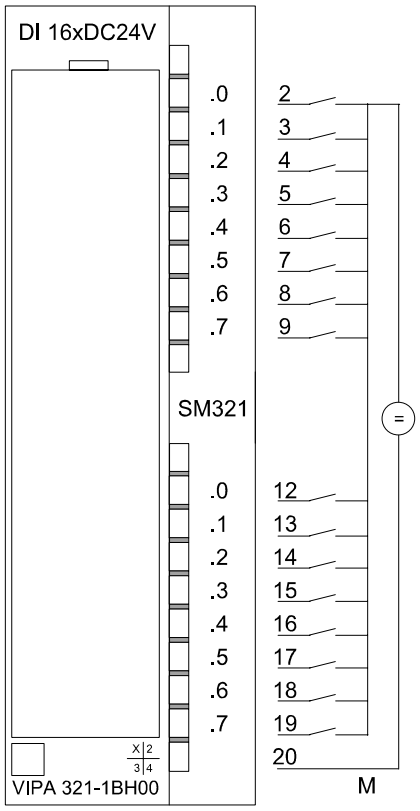
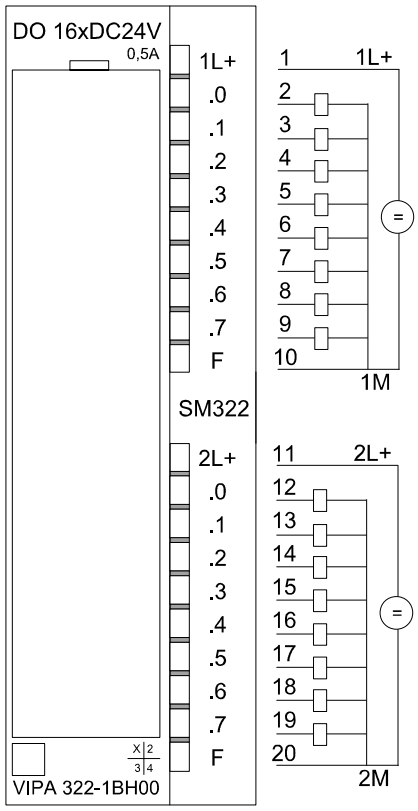
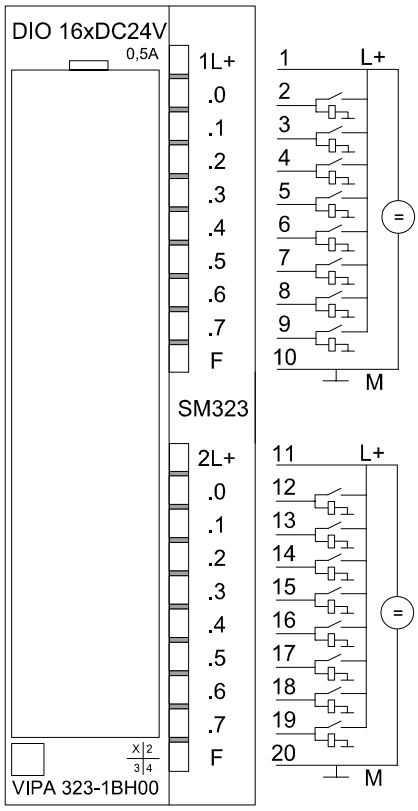
Technical documentation

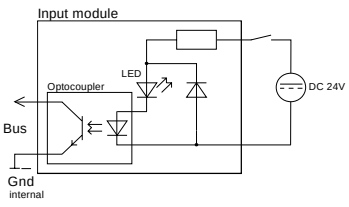
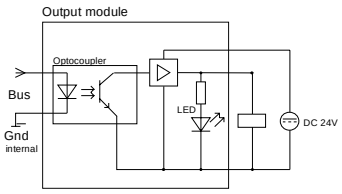
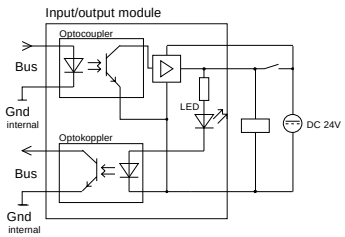
Digital Input/Output System for S7-300 from Siemens

Order no.: VIPA -HB36-1E
Rev. 99/49

Technical Data

321-1BH00 Digital input module	322-1BH00 Digital output module	323-1BH00/BL Digital input/output module
		

Technical Data

	321-1BH00 Digital input module	322-1BH00 Digital output module	323-1BH00/BL Digital input/output module
Number of inputs:	16	—	max. 16
Number of outputs:	—	16	max. 16
Insulation:	yes	yes	yes
Inputs			
In groups of:	16	—	16
Input voltage:			
- rated voltage:	24 V DC	—	24 V DC
- "0" signal level:	0...5 V	—	0...5 V
- "1" signal level:	15...30 V	—	15...30 V
Current for signal "1":	7 mA	—	7 mA
Delay time:	3 ms	—	3 ms
2-wire BERO perm. quiescent curr.:	1,5 mA		1,5 mA
Outputs			
In groups of:	—	8 (supply and insulated)	8 (supply), 16 (insulated)
Supply voltage			
- rated voltage:	—	24V DC	24V DC
- tolerance:	—	20,4...28,8 V DC	20,4...28,8 V DC
Output current			
- rated current:	—	0,5 A	0,5 A
- tolerance:	—	max. 1,2 A	max. 1,2 A
- total current per group:	—	4 A	4 A
- max. power:	—	5 W	5 W
Status indicator:	1 green LED per channel for logical "1"	1 green LED per channel for logical "1"	1 green LED per channel for logical "1"
Diagnostics:	—	yellow LED indicating power available red LED for overload or short circuit	yellow LED indicating power available red LED for overload or short circuit
Configuration:	as 321-1BH00	as 322-1BH00	as 323-1BL00
Type:	Inputs	Outputs	Inputs/outputs
Length:	2	2	2/2
Format:	Byte	Byte	Byte 2 byte input / 2 byte output
General			
Power requirements:	5V via back panel bus	5V via back panel bus	5V via back panel bus
Current consumption:			
- back panel bus:	25 mA max.	110 mA max.	130 mA max.
- L+ without load:	—	30 mA	30 mA
Power dissipation:	3,5 W	4 W	4 W
Dimensions (WxHxD):	40x125x120 mm	40x125x120 mm	40x125x120 mm
Weight:	200 g	200 g	210 g
Block diagram:			
Notes:			**This module is pin-compatible with 323-1BH00 but it is configured as 323-1BL00!**

Output pins must never be connected to a voltage that exceeds the voltage applied to L+!
If this rule is ignored the module will be destroyed.