

DEA 300, Digital Input/Output Modules



Digital input/output modules

The digital inputs convert the external binary signals from the process into the internal signal level of the programmable controller.

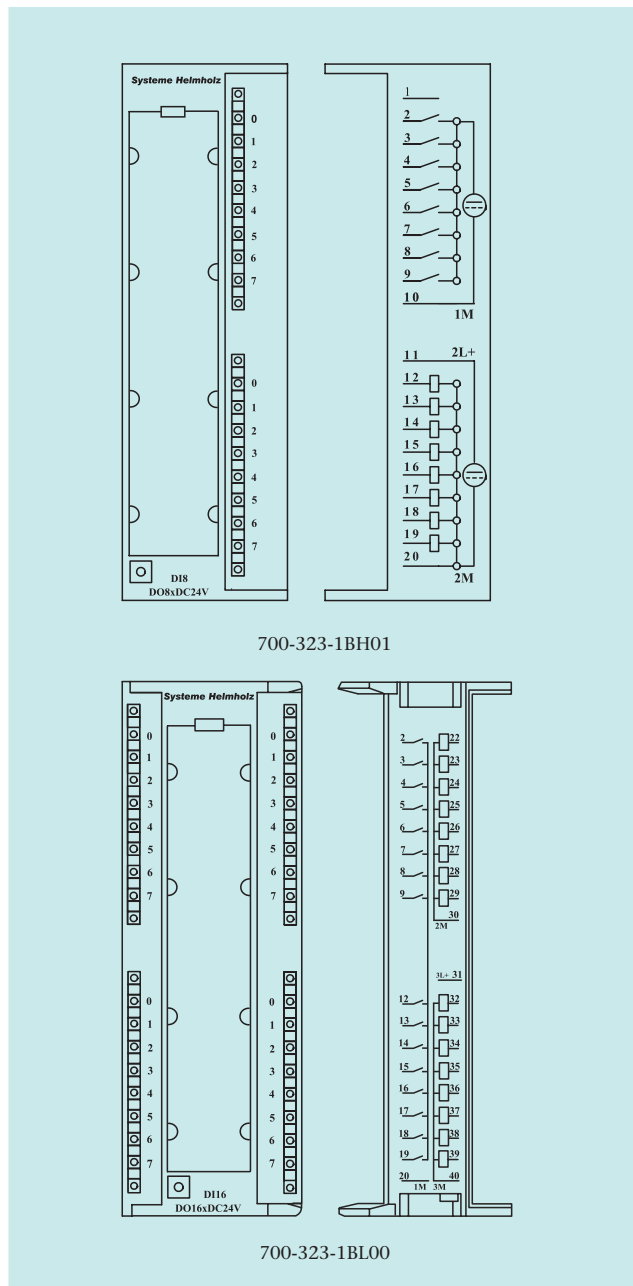
The digital outputs convert the internal signal level of the programmable controllers into the external binary signal level required for the process. Green LEDs indicate the signal state of the inputs and outputs.

The inputs of the modules from the Systeme Helmholtz GmbH are also suitable for connection of 2-wire proximity switches, the outputs for connection of, for example, solenoid valves, contactors, and small motors within the permissible data.

Modules with modified specifications or special modules can be supplied on request.

Accessory-Note

The Systeme Helmholtz GmbH supplies front connectors and cable sets (see page 27).

**Ordering Data**

	Order-No.
DEA 300	
8 inputs (DC 24 V)/ 8 outputs (DC 24 V, 0.5 A)	700-323-1BH01
16 inputs (DC 24 V)/ 16 outputs (DC 24 V, 0.5 A)	700-323-1BL00
Manual DEA 300, german/english	900-321-1DE11

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Technical Data		
	700-323-1BH01	700-323-1BL00
Number of inputs	8	16
Isolation (from backplane bus) in groups of	yes (optocoupler) 8	yes (optocoupler) 16
Input voltage - nom. value - for "0" signal - for "1" signal	DC 24 V -3 ... +5 V +13 ... +30 V	DC 24 V -3 ... +5 V + 13 ... +30 V
Input current - for "1" signal	typ. 7 mA	7 mA
Delay time	typ. 1.2 ... 4.8 ms	1.2 ... 4.8 ms
Connection of 2-wire initiator perm. quiescent current for "0" signal	yes max. 2 mA	yes 1.5 mA
Cable length - unshielded - shielded	max. 600 m max. 1000 m	600 m 1000 m
Number of outputs	8	16
Isolation (from backplane bus) in groups of	yes (optocoupler) 8	yes (optocoupler) 8
Output current - nom. value	0.5 A	0.5 A
Short-circuit protection	electronic	electronic
Voltage induced on circuit interruption limited to	- 48 V	- 48 V
Cable length - unshielded - shielded	max. 600 m max. 1000 m	600 m 1000 m
Supply voltage U_P, U_S - nom. value - ripple V_{RP} - permissible range (including ripple) - value at $t < 10$ ms	max. DC 24 V 3.6 V 20 ... 30 V max. 50 V	DC 24 V 3.6 V 20 ... 30 V 50 V
Current consumption - internal (backplane bus) - external (without load, from +24 V)	typ. 35 mA max. 62 mA	65 mA 110 mA
Power loss (nominal operation)	typ. 3.5 W	6.8 W
Front connector	20-way	40-way
Permissible ambient temperature - operating - transport and storage	0°C ... 60°C -25°C ... 75°C	0°C ... 60°C -25°C ... 75°C