

8.5 DO700

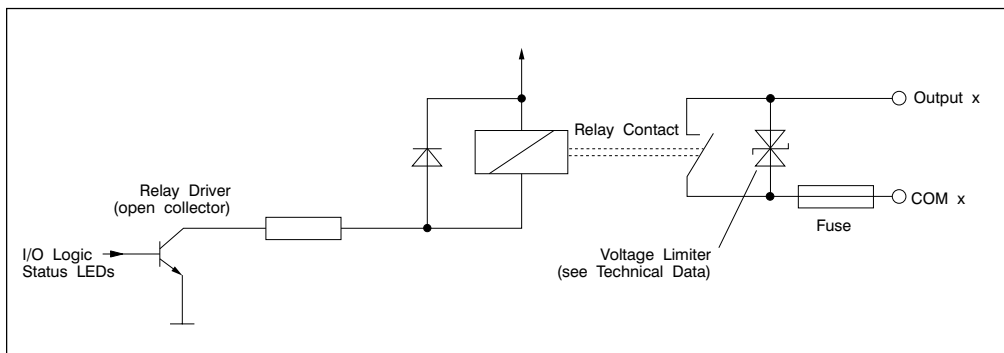
8.5.1 Technical Data



Module ID	DO700
Model Number	2DO700.6
Description	2010 Digital Output Module, 16 relay outputs 230 VAC / 24 VDC, 3 A, 4 electrically isolated output groups, Order terminal blocks separately!
C-UL-US Listed	Yes
B&R ID Code	\$07
Base Plate Module	BP200, BP201, BP210
Number of Outputs Total in 4 Groups of	16 4
Type	Relay / normally open
Electrical Isolation Output - PCC Group - Group Output - Output	Yes Yes No
Switching Voltage Nominal Maximum	230 VAC / 24 VDC 250 VAC / 30 VDC
Continuous Current Per Output per Group Module	Max. 3 A Max. 8 A Max. 16 A
Switching Power Minimum Maximum	1 mA / 5 VDC 750 VA / 90 W

Module ID	DO700
Switching Delay	Approx. 10 msec
Short Circuit Protection	Fuse 10 A (at least 8 A) slow-blow per group
External Protective Circuit	Generally required
Voltage Limits on Relay Contacts	400 V _{SS}
Contact Resistance at Maximum Load	30 mΩ
Switching Cycle	
Mechanical	> 2 x 10 ⁷
Electrical (nominal load)	> 1 x 10 ⁵
per Hour (nominal load)	max. 600
Switching Frequency (nominal load)	max. 10 Hz
Dielectric Strength	
Contact	280 VAC (voltage limitation)
Contact - Coil	2000 VAC / 1 min
Relative Humidity	0 to 95 % (non-condensing)
Dimensions (H, W, D) [mm]	285, 40, 185

8.5.2 Output Diagram



8.5.3 Status LEDs

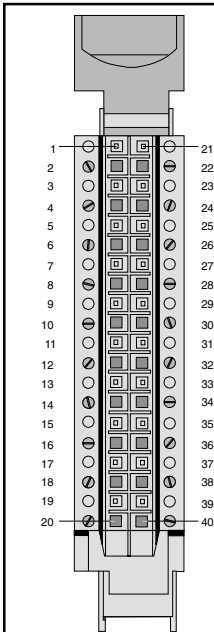


Indicates the status of the terminal block, i.e. if this LED is lit, either no terminal block is connected or the terminal block which is connected is not connected properly.

1 ... 16 LEDs 1 to 16 indicate the logical status of the respective output.



8.5.4 Terminal Assignments



TB120

Terminal	Description		Terminal	Description	
1		Group1	21		Group3
2	Output 1		22	Output 9	
3			23		
4	Output 2		24	Output 10	
5			25		
6	Output 3		26	Output 11	
7			27		
8	Output 4		28	Output 12	
9			29		
10	COM (1-4)		30	COM (9-12)	
11		Group2	31		Group4
12	Output 5		32	Output 13	
13			33		
14	Output 6		34	Output 14	
15			35		
16	Output 7		36	Output 15	
17			37		
18	Output 8		38	Output 16	
19			39		
20	COM (5-8)		40	COM (13-16)	

8.5.5 Variable Declaration

Function	Variable Declaration				
	Scope	Data Type	Length	Module Type	Channel
Single Digital Output (Channel x)	tc_global	BIT	1	Digital Out	1 ... 16
Read terminal block status Bit 0 = 1 No terminal block connected Bit 0 = 0 Terminal block connected properly	tc_global	BYTE	1	Status In	0

8.5.6 Fuses

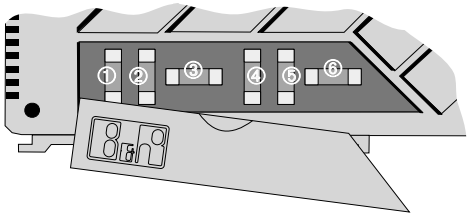
A cover can be found on the right-hand side of the module housing, under which the fuses for the DO700 module are located. The following fuses are used:

Fuse: 10 A slow-blow (minimum. 8 A)



The fuses may only be exchanged if power is not being supplied to the module (Terminal block disconnected and module removed from base plate)

DO700 Fuses



Fuse	Output
①	13 16
②	5 8
③	Reserve
④	1 4
⑤	9 12
⑥	Reserve