

8.4 DO600

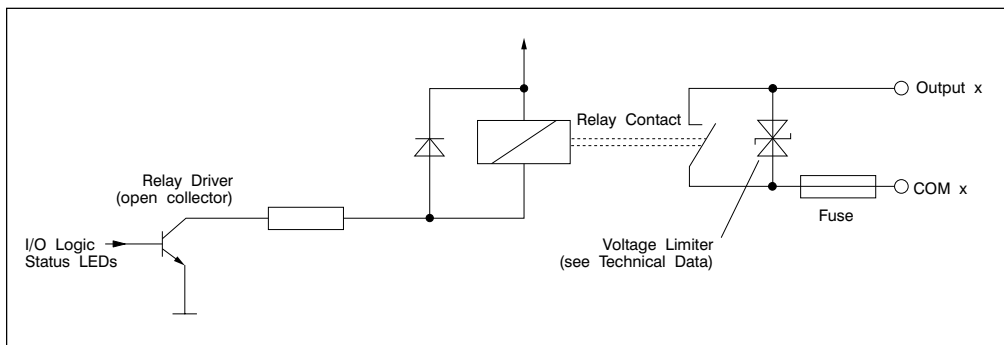
8.4.1 Technical Data



Module ID	DO600
Model Number	2DO600.6
Description	2010 Digital Output Module, 32 relay outputs 120 VAC / 24 VDC, 2 A, 8 electrically isolated output groups, order terminal blocks separately!
C-UL-US Listed	Yes
B&R ID Code	\$06
Base Plate Module	BP200, BP201, BP210
Number of Outputs Total in 8 Groups of	32 4
Type	Relay/normally open
Electrical Isolation Output - PCC Group - Group Output - Output	Yes Yes No
Switching Voltage Nominal Maximum	120 VAC / 24 VDC 144 VAC / 30 VDC
Continuous Current per Output per Group Module	Max. 2 A Max. 8 A Max. 32 A
Switching Power Minimum Maximum	1 mA / 5 VDC 750 VA / 90 W

Module ID	DO600
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 Electrical (nominal load) per Hour (nominal load)	 >2 x 10 ⁷ >1 x 10 ⁵ Max. 600
Switching Frequency (nominal load)	Max. 10 Hz
Dielectric Strength Contact Contact - Coil	 280 VAC (voltage limitation) 2000 VAC / 1 min
Power Consumption	Max. 8 W
Dimensions (H, W, D) [mm]	285, 40, 185

8.4.2 Output Circuit



8.4.3 Status LEDs

—C—●— 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 ... 32 LEDs 1 to 32 indicate the logical status of the respective output.



8.4.4 Terminal Assignments

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

8.4.5 Variable Declaration

Function	Variable Declaration				
	Scope	Data Type	Length	Module Type	Channel
Single Digital Output (Channel x)	tc_global	BIT	1	Digital Out	1...32
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

8.4.6 Fuses

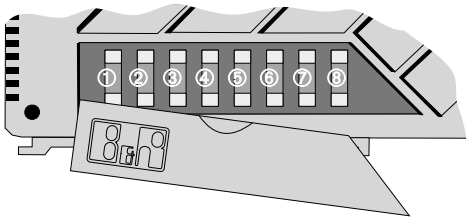
A cover can be found on the right-hand side of the module housing, under which the fuses for the DO600 module are located. The following fuses are used:

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)

DO600 Fuses



Fuse	Output
①	29 32
②	13 16
③	25 28
④	9 12
⑤	21 24
⑥	5 8
⑦	17 20
⑧	1 4