

7.3 DI425 / DI426

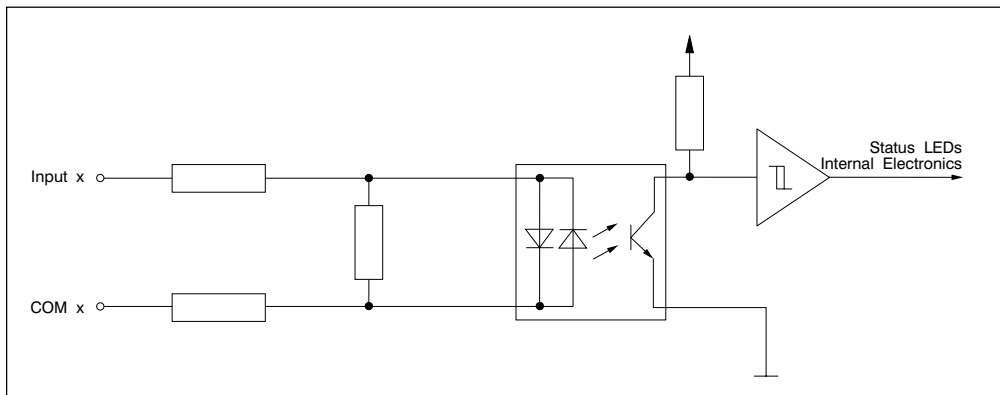
7.3.1 Technical Data



Module ID	DI425	DI426
Model Number	2DI425.6	2DI426.6
Description	2010 Digital Input Module, 32 inputs 24 VDC, 10 msec, sink/source, 8 electrically isolated input groups, Order terminal blocks separately!	2010 Digital Input Module, 32 inputs 24 VDC, 1 msec, sink/source, 8 electrically isolated input groups, Order terminal blocks separately!
C-UL-US Listed	Yes	Yes
B&R ID Code	\$01	\$03
Base Plate Module	BP200, BP201, BP210	
Number of Inputs Total in 8 Groups of	32 4	
Electrical Isolation Input - PCC Group - Group Input - Input (same group)	Yes (optocoupler) Yes (optocoupler) No	
Wiring	Sink or source	
Input Voltage Nominal Maximum	24 VDC 30 VDC	
Input Resistance	4 k Ω	
Switching Threshold LOW Range Switching Range HIGH Range	<5 V 5 to 15 V >15 V	

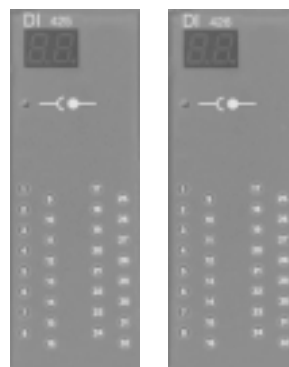
Module ID	DI425	DI426
Switching Delay Typ. Max.	10 msec 12 msec	1 msec 1.2 msec
Input Current at Nominal Voltage	Approx. 6 mA	
Maximum Peak Voltage	500 V for 50 μ sec max. every 100 msec	
Power Consumption	Max. 4 W	
Dimensions (H, W, D) [mm]	285, 40, 185	

7.3.2 Input Circuit

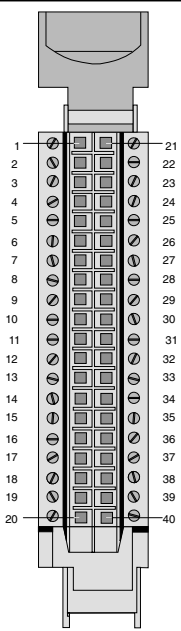


7.3.3 Status LEDs

- Displays the status of the terminal block, i.e. if this LED is lit, either no terminal block is connected to the module or the terminal block is not properly connected.
- 1 ... 32**
 These Status LEDs indicate the logical state of the respective input. The LED is lit, independent of the type of connection (Sink or Source), if the input is log. 1, i.e. if current is flowing through the optocoupler.



7.3.4 Terminal Assignments

		Termination	Description		Termination	Description	
 TB140		1	Input 1	Group 1	21	Input 17	Group 5
		2	Input 2		22	Input 18	
		3	Input 3		23	Input 19	
		4	Input 4		24	Input 20	
		5	COM (1-4)		25	COM (17-20)	
		6	Input 5	Group 2	26	Input 21	Group 6
		7	Input 6		27	Input 22	
		8	Input 7		28	Input 23	
		9	Input 8		29	Input 24	
		10	COM (5-8)		30	COM (21-24)	
		11	Input 9	Group 3	31	Input 25	Group 7
		12	Input 10		32	Input 26	
		13	Input 11		33	Input 27	
		14	Input 12		34	Input 28	
		15	COM (9-12)		35	COM (25-28)	
		16	Input 13	Group 4	36	Input 29	Group 8
		17	Input 14		37	Input 30	
		18	Input 15		38	Input 31	
		19	Input 16		39	Input 32	
		20	COM (13-16)		40	COM (29-32)	

7.3.5 Variable Declaration

Function	Variable Declaration				
	Scope	Data type	Length	Module type	Channel
Read single digital input (channel x)	tc_global	BIT	1	Digit. In	1 ... 32
Read terminal block status Bit 0 = 1 Terminal not connected Bit 0 = 0 Terminal connected with module	tc_global	BYTE	1	Status In	0