

7.4 DI725

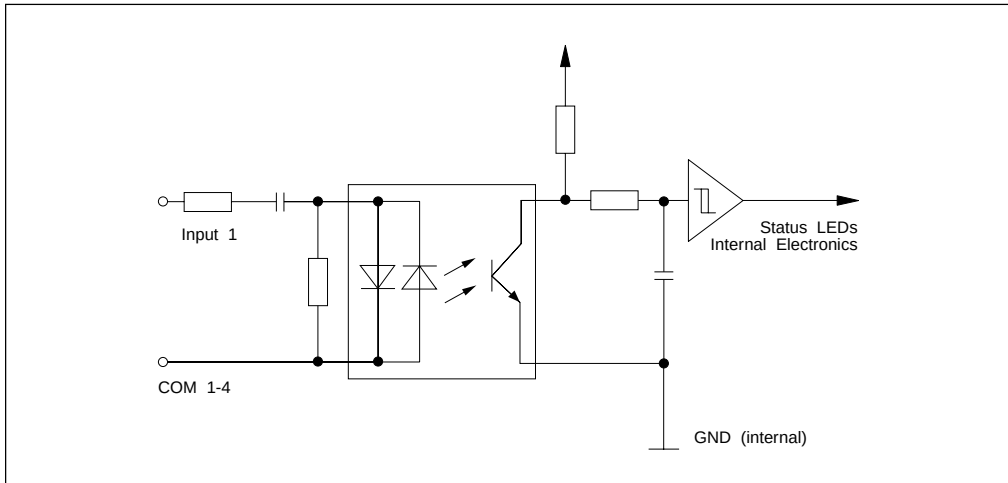
7.4.1 Technical Data



Module ID	DI725
General	
Model Number	2DI725.6
Description	2010 Digital Input Module, 32 inputs 120/230 VAC, 50 msec, 8 electrically isolated input groups, Order terminal blocks separately!
C-UL-US Listed	Yes
B&R ID Code	\$26
Base Plate Module	BP200, BP201, BP210
Input Circuit	see "Input Circuit"
Static Characteristics	
Module Type	B&R 2010 I/O module - single width
Number of Inputs	32
Maximum Peak Voltage	264 VAC
Rated Voltage	120 / 230 VAC
Rated Frequency	50 / 60 Hz
Limit Values	
0-Signal UL	Max. 40 VAC
0-Signal IL	Max. 15 mA
1-Signal UH	Min. 79 VAC
1-Signal IH	Min. 2 mA

Module ID	DI725
Delay 0 to 1	max. 50 msec
Delay 1 to 0	max. 50 msec
Power Consumption Internal External	max. 4 W max. 7 W
Additional Characteristics	
Status Display Terminal Status Inputs	1 red LED 1 green LED per channel
Operating Characteristics	
Effects if Inputs are Connected Incorrectly	No effects on the module
Isolation Voltage under Normal Operating Conditions between Channel and Bus Other Channel	2500 VAC 500 VAC
Tapping Point and Binary Status of the Image Register	PCC logic
Effects of Removing/Inserting The Input Module under Power	No effects on the module
Additional External Load when Switching Inputs and Outputs Together, if Required	See specification of the respective output module
Signal Evaluation	AC voltage runs through an RC combination to the optocoupler. Evaluation takes place using a comparator with filter. Further signal processing in digital part.
Typical Example for External Connections	COM connected to neutral and input to switched phase
Different Circuits Possible	Yes (but not different phases)
Mechanical Characteristics	
Dimensions	B&R 2010 single width
Terminal Assignments	see "Terminal Assignments"

7.4.2 Input Circuit

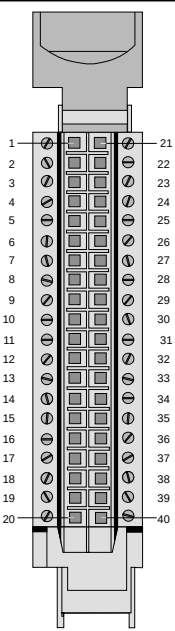


7.4.3 Status LEDs

- 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 when the input is log. 1, i.e. current is flowing through the optocoupler.



7.4.4 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)	

7.4.5 Variable Declarations

Function	Variable Declaration				
	Scope	Data type	Length	Module type	Channel
Read a single digital input (channel x)	tc_global	BIT	1	Digital In.	1 ... 32
Read terminal block status Bit 0 = 1 No terminal block connected Bit 0 = 0 Terminal block connected	tc_global	BYTE	1	Status In.	0