

RBXM MODULE

AS5024.001 - "DIG.INP." - 32-ch DIGITAL INPUT BOARD

Input description.

The first Input on the board can generate an Interrupt to the CPU.

Remark: the CPU can handle only one Input of this type. If more Inputs generating Interrupts are needed, the AS5024.002 board must be used.

Input / Output Words.

The Input/Output word address for each board (CPU excluded) depends on its position inside the rack. Addresses are here referred to as "BASE" + a number representing the board internal offset. To find the value of "BASE" refer to the RHW.CFG configuration file generated by the operating system during the autoconfiguration session and stored in the flash card. This file contains the address of the I/O words for each board installed in your rack. The value of "BASE" is the value of the first Input or Output word in the board.

Number of Input Words: 2

Number of Output Words: 0

"Bit 0" is the least significant bit in the word, "Bit 15" is the most significant bit in the word.

Input Word ("BASE" + 0): Inputs 1 --> 16 read out

0 = input in Low State; 1 = input in High State

Bit 0 --> Input 1
 Bit 1 --> Input 2
 .
 .
 Bit 15 --> Input 16

Input Word ("BASE" + 1): Inputs 17 --> 32 read out

0 = input in Low State; 1 = input in High State

Bit 0 --> Input 17
 Bit 1 --> Input 18
 .
 .
 Bit 15 --> Input 32

Software Requirements.

To work correctly, the board needs the following minimum software requirements:

Operating System Flash (OSFM): Version 1.07 or higher

"RHLL" language: Version 21.04 or higher

RIOR RACK

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 Bit 1 --> Input 18
 .
 .
 Bit 15 --> Input 32

Software Requirements.

To work correctly, the board needs the following minimum software requirements:

Operating System Flash (OSFF): Version 1.01 or higher

Microcontroller Pic: Version 2.00 or higher

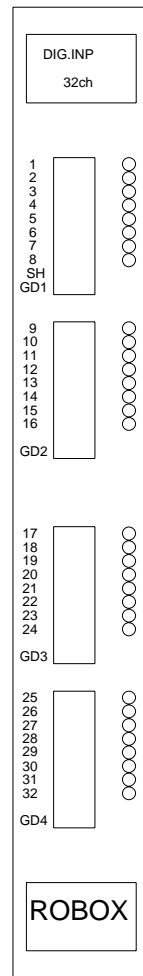
"RHLL" language: Version 21.04 or higher

Enclosure: IU5024.001 03.04.97

FRONT PANEL

**BOARD:
"DIG.INP"
32 ch**

FRONT VIEW



LED MEANING

THE GREEN LED SITUATED NEAR EACH INPUT SHOWS, IF ON, THAT THE RELEVANT INPUT IS ACTIVE, THAT IS IT DRIVES A +24V

SPECIFICATION

Digital Inputs:	
Number of Inputs	32 (4 Groups of 8)
Input Voltage Range	from -30 V to +30 V
Off-State Voltage	5 V Maximum
Off-State Current	1 mA Maximum
On-State Voltage	15 V Minimum
On-State Current	5 mA Minimum
Input Impedance	3.8 KOhm Typical
Input Current	7 mA Typical
Propagation Delay	400 us Typical
Isolation	1500 V ac rms
BOARD SPECIFICATION	
Backplane Current (5V)	250 mA Maximum
Power Dissipation	12 W Maximum
Environmental Condition:	
Temperature	from 0 to 50 degrees C
Humidity	85% Maximum (without condensation)

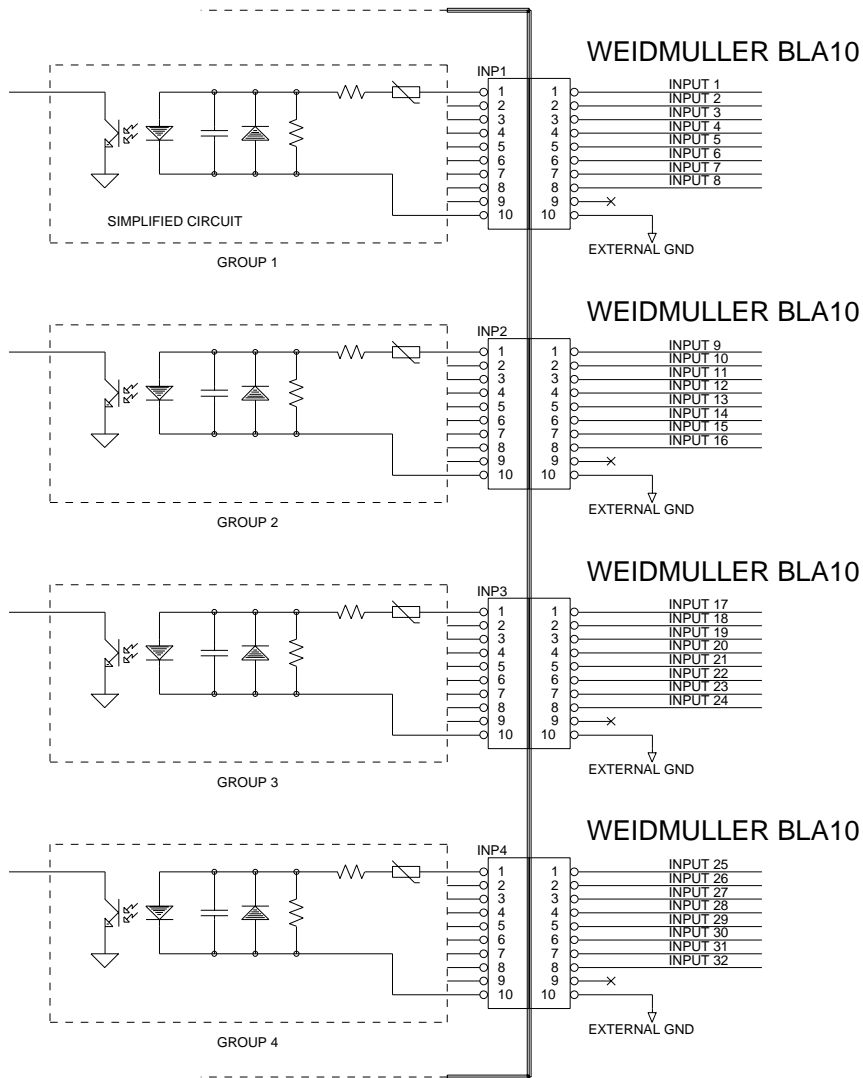


Rev.N.	Descr.
Date	

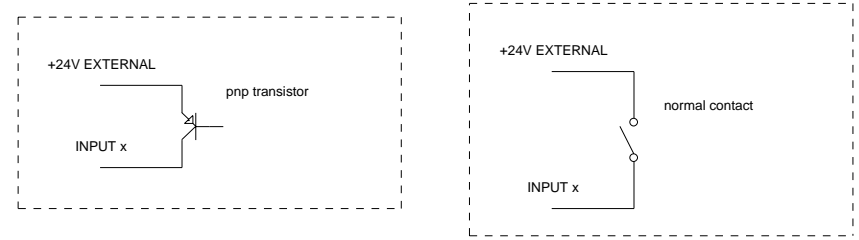
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Ver.	Foglio
App.	

AS5024.001 USER'S INSTRUCTION
FRONT PANEL LED MEANING SPECIFICATION

Dis.	R.COLOMBO	D.N.	IU5024.001
Ver.		Data	03/04/97
App.		FN	1
		Di	2



Possible external connections



CABLES: INPUT: USE SECTION 0.22 mm² MINIMUM CABLE
EXTERNAL GND: USE SECTION 0.5 mm² MINIMUM CABLE

NOTA: THE GROUND OF EACH GROUP IS SEPARATED BY THE GROUND OF OTHER GROUPS

 ROBOX SpA ITALY Via Sempione 82 Castelletto T. 28053 (NO)	Rev. N.	Descr.	Dis.	Disegno AS5024.001 USER'S INSTRUCTION	Dis.	R.COLOMBO	D. N.	IU5024.001	
	Date		Ver.	Foglio	EXTERNAL CONNECTIONS CONNECTION EXAMPLES	Ver.		Data	03/04/97
			App.			App.		FN	2