HSL HSL-DI32-US 32-CH Discrete Input Module for HSL System

Pin Definitions

P1:

No.	Name	I/O	Function	No.	Name	I/O	Function
1	+24V_In	I	Power Supply Input	2	GND_In	--	Power Supply Ground
3	+24V_In	I	Power Supply Input	4	GND_In	--	Power Supply Ground
5	+24V_In	I	Power Supply Input	6	GND_In	--	Power Supply Ground
7	DI0	I	Discrete Input Channel 0	8	DI1	I	Discrete Input Channel 1
9	DI2	I	Discrete Input Channel 2	10	DI3	I	Discrete Input Channel 3
11	DI4	I	Discrete Input Channel 4	12	DI5	I	Discrete Input Channel 5
13	DI6	I	Discrete Input Channel 6	14	DI7	I	Discrete Input Channel 7
15	DI8	I	Discrete Input Channel 8	16	DI9	I	Discrete Input Channel 9
17	DI10	I	Discrete Input Channel 10	18	DI11	I	Discrete Input Channel 11
19	DI12	I	Discrete Input Channel 12	20	DI13	I	Discrete Input Channel 13
21	DI14	I	Discrete Input Channel 14	22	DI15	I	Discrete Input Channel 15
23	+24V_In	I	Power Supply Input	24	GND_In	--	Power Supply Ground
25	+24V_In	I	Power Supply Input	26	GND_In	--	Power Supply Ground

P2:

No.	Name	I/O	Function	No.	Name	I/O	Function
1	+24V_In	I	Power Supply Input	2	GND_In	--	Power Supply Ground
3	+24V_In	I	Power Supply Input	4	GND_In	--	Power Supply Ground
5	+24V_In	I	Power Supply Input	6	GND_In	--	Power Supply Ground
7	DI16	I	Discrete Input Channel 16	8	DI17	I	Discrete Input Channel 17
9	DI18	I	Discrete Input Channel 18	10	DI19	I	Discrete Input Channel 19
11	DI20	I	Discrete Input Channel 20	12	DI21	I	Discrete Input Channel 21
13	DI22	I	Discrete Input Channel 22	14	DI23	I	Discrete Input Channel 23
15	DI24	I	Discrete Input Channel 24	16	DI25	I	Discrete Input Channel 25
17	DI26	I	Discrete Input Channel 26	18	DI27	I	Discrete Input Channel 27
19	DI28	I	Discrete Input Channel 28	20	DI29	I	Discrete Input Channel 29
21	DI30	I	Discrete Input Channel 30	22	DI31	I	Discrete Input Channel 31
23	+24V_In	I	Power Supply Input	24	GND_In	--	Power Supply Ground
25	+24V_In	I	Power Supply Input	26	GND_In	--	Power Supply Ground

RJ1-RJ2:

No.	Name	Function
1	NA	NA
2	NA	NA
3	TX+	RS-422/485 Transmission Line, Positive
4	RX-	RS-422/485 Receiving Line, Negative
5	RX+	RS-422/485 Receiving Line, Positive
6	TX-	RS-422/485 Transmission Line, Negative
7	NA	NA
8	NA	NA

POWER 1:

No.	Name	I/O	Function
1	EX +24V	I	External Power Supply Input (+24V DC+5%)
2	+24V_In	I	Power Supply Input (+24V DC+5%)
3	EX_GND	--	External Power Supply Ground
4	GND_In	--	Power Supply Ground
5	F_GND	--	Shielding Ground

JUMPER

JP2: Input Mode	
1-2	NPN (Default)
2-3	PNP

JP3:Terminator Resistor	
1-3 2-4	ON
3-5 4-6	OFF (Default)

JP4	
1-3 2-4	Full Duplex (Default)
3-5 4-6	Half Duplex

JP5	
1-2	3M
3-4	6M (Default)
5-6	12M

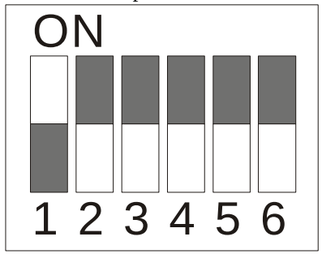
JP6	
1-3 2-4	Separate Power Separate GND
3-5 4-6	Common Power Common GND (Default)

Specifications

Discrete Input						
Model	Number	Type	Input Current max.	Input Impedance	Operating Voltage with $+24V_{DC}$	
					ON	OFF
-N	32	NPN Sinking or Dry Contact	-10mA	4.7 kΩ	11.4 V_{DC} max.	14.3 V_{DC} min.
-P		PNP Sourcing or Wet Contact	+10mA		12.6 V_{DC} min.	9.8 V_{DC} max.

DIP Switch Setting

The DI32 occupies 2 consecutive address allocations begining with and odd address. Bit **1** is fixed to **ON**.



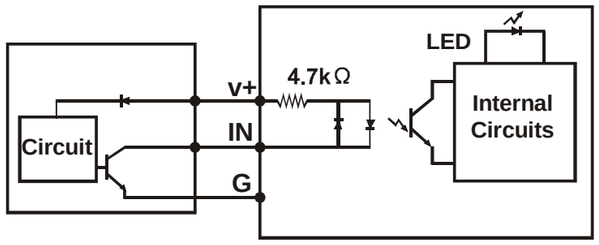
ON = 1

100000	address 1, 2
110000	address 3, 4
…	…
110111	address 59, 60
101111	address 61, 62

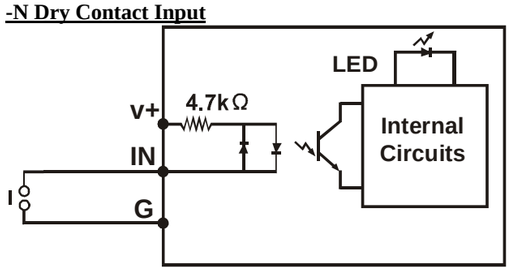
OFF = 0

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-N NPN Sinking Input



-N Dry Contact Input



Ordering Information

HSL-DI32-US-N: 32-CH Discrete NPN Sinking Input Module
HSL-DI32-US-P: 32-CH Discrete PNP Sourcing Input Module

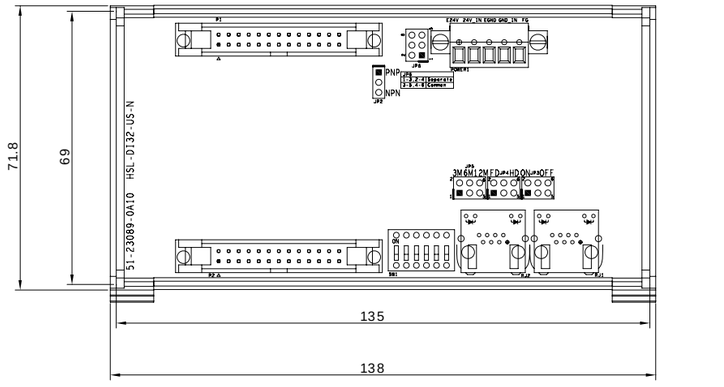
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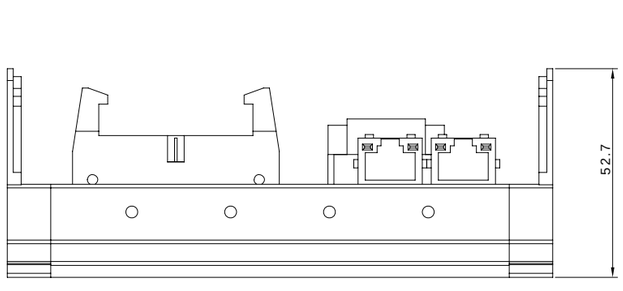
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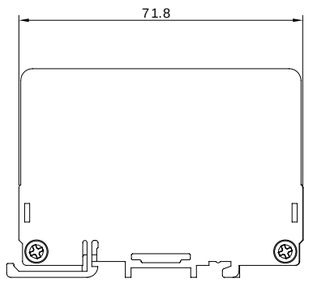
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Dimensions

US Module with case (138 x 71.8 x 52.7mm)







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