HSL HSL-DI16DO16-UD 16-CH Discrete Input and 16-CH Discrete Output Module for HSL System

Pin Definitions

P1

No.	Name	I/O	Function	No.	Name	I/O	Function
0	DI0	I	Discrete Input Channel 0	8	DI8	I	Discrete Input Channel 8
1	DI1	I	Discrete Input Channel 1	9	DI9	I	Discrete Input Channel 9
2	DI2	I	Discrete Input Channel 2	10	DI10	I	Discrete Input Channel 10
3	DI3	I	Discrete Input Channel 3	11	DI11	I	Discrete Input Channel 11
4	DI4	I	Discrete Input Channel 4	12	DI12	I	Discrete Input Channel 12
5	DI5	I	Discrete Input Channel 5	13	DI13	I	Discrete Input Channel 13
6	DI6	I	Discrete Input Channel 6	14	DI14	I	Discrete Input Channel 14
7	DI7	I	Discrete Input Channel 7	15	DI15	I	Discrete Input Channel 15
G	EX_GND	--	External Power Ground	V+	EX +24 V	--	External Power
G	EX_GND	--	External Power Ground	V+	EX +24 V	--	External Power
G	EX_GND	--	External Power Ground	V+	EX +24 V	--	External Power
G	EX_GND	--	External Power Ground	V+	EX +24 V	--	External Power

P2

No.	Name	I/O	Function	No.	Name	I/O	Function
0	DO0	O	Discrete Output Channel 0	8	DO8	O	Discrete Output Channel 8
1	DO1	O	Discrete Output Channel 1	9	DO9	O	Discrete Output Channel 9
2	DO2	O	Discrete Output Channel 2	10	DO10	O	Discrete Output Channel 10
3	DO3	O	Discrete Output Channel 3	11	DO11	O	Discrete Output Channel 11
4	DO4	O	Discrete Output Channel 4	12	DO12	O	Discrete Output Channel 12
5	DO5	O	Discrete Output Channel 5	13	DO13	O	Discrete Output Channel 13
6	DO6	O	Discrete Output Channel 6	14	DO14	O	Discrete Output Channel 14
7	DO7	O	Discrete Output Channel 7	15	DO15	O	Discrete Output Channel 15
G	IO_GND	--	Digital I/O Power Ground	V+	IO +24 V	O	Digital I/O Power
G	IO_GND	--	Digital I/O Power Ground	V+	IO +24 V	O	Digital I/O Power
G	IO_GND	--	Digital I/O Power Ground	V+	IO +24 V	O	Digital I/O Power
G	IO_GND	--	Digital I/O Power Ground	V+	IO +24 V	O	Digital I/O Power

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

POWER1:

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

JUMPER

JP1: (When Reset)	
1-2	Clear Data (Default)
2-3	Keep Data

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

JP3	
1-2	3M
3-4	6M (Default)
5-6	12M

JP4: Terminator Resistor	
1-3 2-4	ON
3-5 4-6	OFF (Default)

JP5	
1-3 2-4	Separate Power Separate GND
3-5 4-6	Common Power Common GND (Default)

JP6	
1-3 2-4	Full Duplex (Default)
3-5 4-6	Half Duplex

Specifications

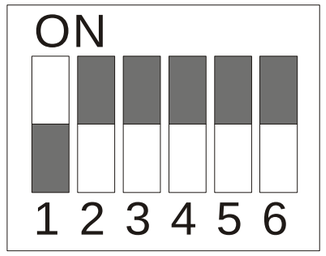
Discrete Input						
Model	Number	Type	Input Current max.	Input Impedance	Operating Voltage with +24 V_{DC}	
					ON	OFF
-NN	16	NPN Sinking or Dry Contact	-10 mA	4.7 kΩ	11.4 V_{DC} max.	14.3 V_{DC} min.
-PN		PNP Sourcing or Wet Contact	+10 mA		12.6 V_{DC} min.	9.8 V_{DC} max.

Transistor Output			
Model	Number	Type	Switching Capacity max.
-NN	16	NPN Sinking	-90 mA at 24 V_{DC}

LED Indication: Active DC power (Red), Link (Green), Discrete Input (Green), Discrete Output (Yellow)

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DIP Switch Setting

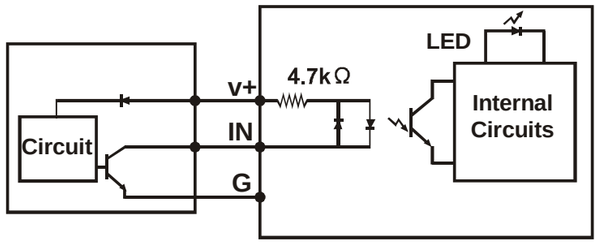


ON = 1

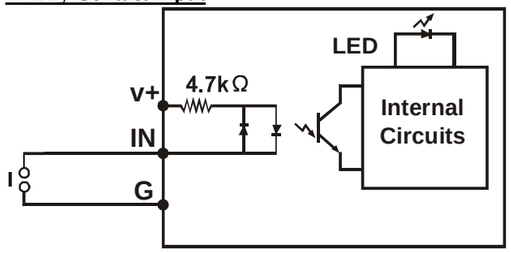
100000	address 1
010000	address 2
…	…
011111	address 62
111111	address 63

OFF = 0

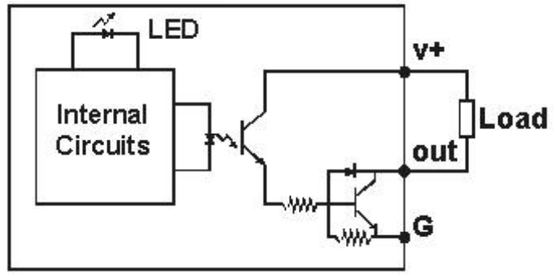
-N NPN Sinking Input



-N Dry Contact Input

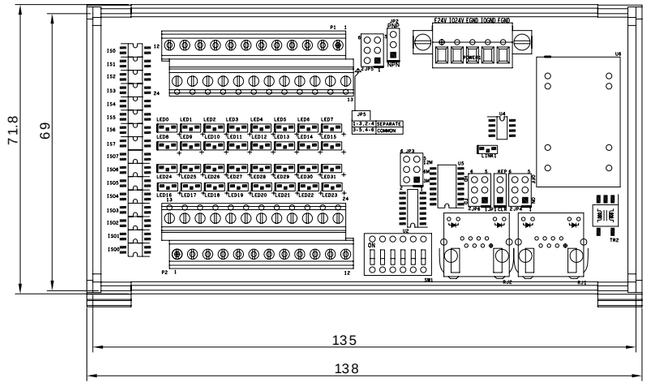


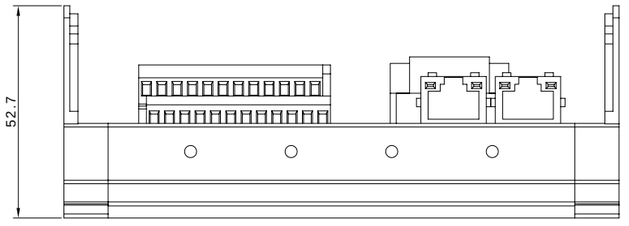
-N NPN Sinking Output

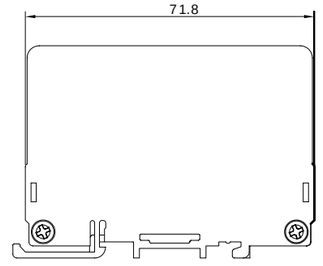


Dimension

UD Daughter Board with case (138x71.8x52.7 mm)







Ordering Information

HSL-DI16DO16-UD-NN: 16-CH Discrete NPN Sinking Input and 16-CH Discrete NPN Sinking Output Module
HSL-DI16DO16-UD-PN: 16-CH Discrete PNP Sourcing Input and 16-CH Discrete NPN Sinking Output Module

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