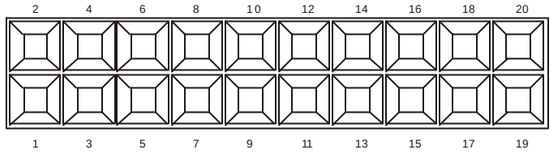
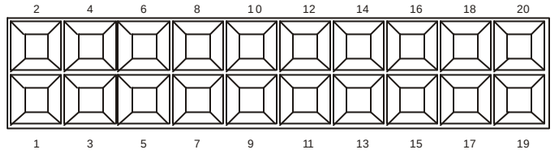
HSL HSL-DI16DO16-M 8-CH Relay Output and 16-CH Discrete Inputs Modules for HSL System

Pin Definitions



JP3

Pin #	Signal Name	Description
1	+VS	External power, +10V~+30V_{DC}
2	GND	External ground
3	NC	No connection
4	GND	External ground
5	RX+	RS-422 receiving line, positive
6	TX+	RS-422 transmission line, positive
7	RX-	RS-422 receiving line, negative
8	TX-	RS-422 transmission line, negative
9	DI0	Discrete Input Channel 0
10	DI1	Discrete Input Channel 1
11	DI2	Discrete Input Channel 2
12	DI3	Discrete Input Channel 3
13	DI4	Discrete Input Channel 4
14	DI5	Discrete Input Channel 5
15	DI6	Discrete Input Channel 6
16	DI7	Discrete Input Channel 7
17	DI8	Discrete Input Channel 8
18	DI9	Discrete Input Channel 9
19	DI10	Discrete Input Channel 10
20	DI11	Discrete Input Channel 11



JP4

Pin #	Signal Name	Description
1	DI12	Discrete Input Channel 12
2	DI13	Discrete Input Channel 13
3	DI14	Discrete Input Channel 14
4	DI15	Discrete Input Channel 15
5	NO0	Relay 0, Normal Open
6	COM0	Relay 0, Common
7	NO1	Relay 1, Normal Open
8	COM1	Relay 1, Common
9	NO2	Relay 2, Normal Open
10	COM2	Relay 2, Common
11	NO3	Relay 3, Normal Open
12	COM3	Relay 3, Common
13	NO4	Relay 4, Normal Open
14	COM4	Relay 4, Common
15	NO5	Relay 5, Normal Open
16	COM5	Relay 5, Common
17	NO6	Relay 6, Normal Open
18	COM6	Relay 6, Common
19	NO7	Relay 7, Normal Open
20	COM7	Relay 7, Common

Specifications

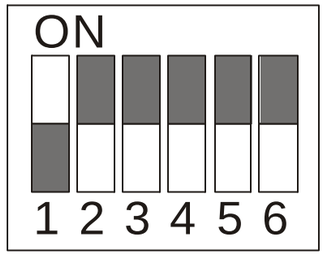
Discrete Input								
Model	Number	Type	Input Current max.	Input Impedance	Operating Voltage		Response Time	
					ON	OFF	ON	OFF
-N	16	NPN Sinking or Dry Contact	-10mA	4.7 kΩ	9.6 V_{DC} max.	19.0 V_{DC} min.	2 ms max.	2 ms max.
-P	16	PNP Sourcing or Wet Contact	+10mA	4.7 kΩ	14.4 V_{DC} min.	5.0 max.	2 ms max.	2 ms max.

Relay Output							
Model	Number	Relay Type	Switching Frequency max.	Switching Capacity max.		Response Time	
				AC	DC	Operate	Release
-N	8	SPST, normally open, nonlatching	20 cpm	3A 250V	3A 30V	6 ms	3 ms
-P	8	SPST, normally open, nonlatching	20 cpm	3A 250V	3A 30V	6 ms	3 ms

Miscellaneous				
Model	Terminal Base Option	External Power Requirement	Power Consumption	Weight
-N	HSL-TB32-M-DIN	+10V to +30V_{DC}	1.8 W	152g
-P	HSL-TB32-M-DIN	+10V to +30V_{DC}	1.8 W	152g

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

DIP Switch Setting



ON = 1

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

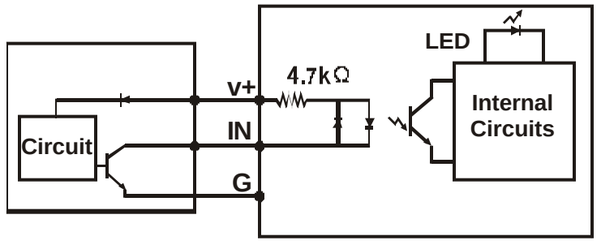
OFF = 0

Discrete Input Field I/O Configuration

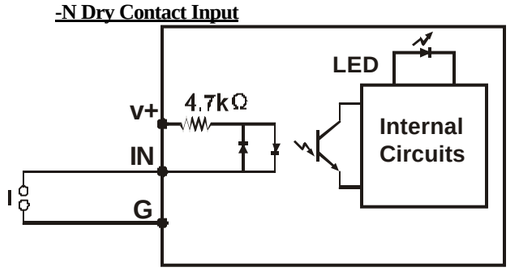
With **HSL-TB32-M-DIN**

Channel No.	Terminal No.	Channel No.	Terminal No.	Channel No.	Terminal No.	Channel No.	Terminal No.
0	0	4	4	8	8	12	12
1	1	5	5	9	9	13	13
2	2	6	6	10	10	14	14
3	3	7	7	11	11	15	15

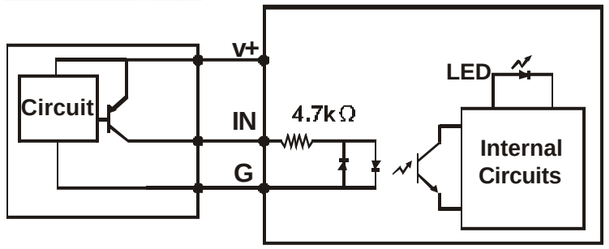
-N NPN Sinking Input



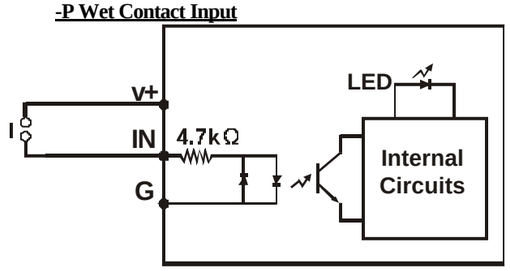
-N Dry Contact Input



-P PNP Sourcing Input



-P Wet Contact Input

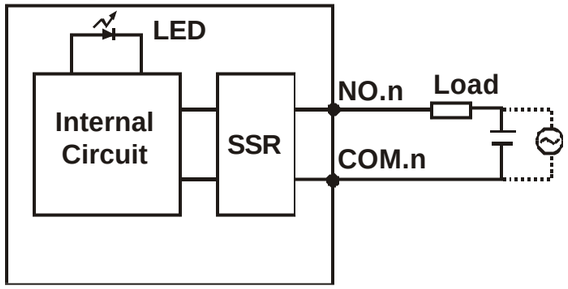


Relay Output Field I/O Configuration

With **HSL-TB32-M-DIN**

Channel No.	Terminal No.		Channel No.	Terminal No	
	NO	COM		NO	COM
0	16	17	4	24	25
1	18	19	5	26	27
2	20	21	6	28	29
3	22	23	7	30	31

Relay Output



Ordering Information

HSL-R8DI16-M-N: 16-CH Discrete NPN Sinking Input and 8-CH Relay Output Module
HSL-R8DI16-M-P: 16-CH Discrete PNP Sourcing Input and 8-CH Relay Output Module

Terminal Base

HSL-TB32-M-DIN: 32-CH I/O Terminal Base with DIN Socket

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Homepage http://www.adlink.com.tw
Service: service@adlink.com.tw
Technical Assistance: NuDAM@adlink.com.tw

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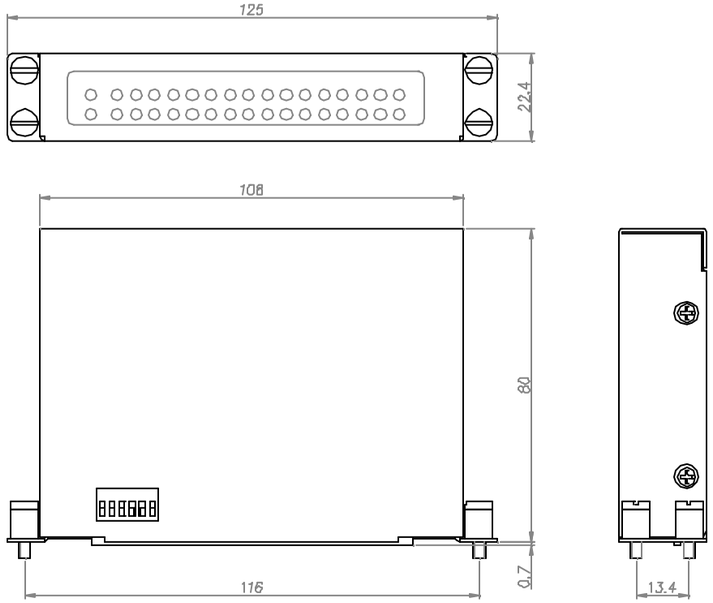
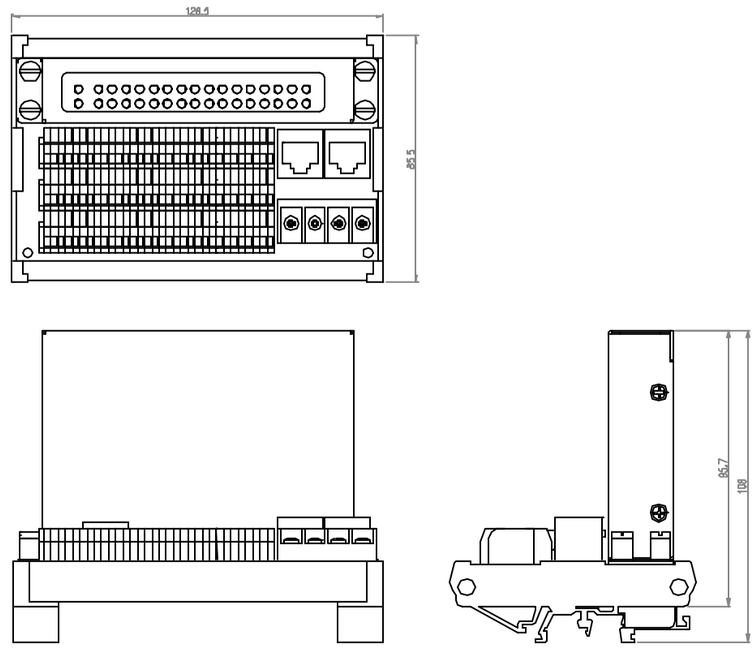
AM-HSLMIO004-E1.00

Dimension

-M Module (125x22.4x80) mm



-M module with HSL-TB32-M-DIN (128.5x85.5x108) mm