

# DN-DI-32DW

Termination board for digital input with high EMS protection and removable fuses



Model: DN-DI-32DW

## Introduction

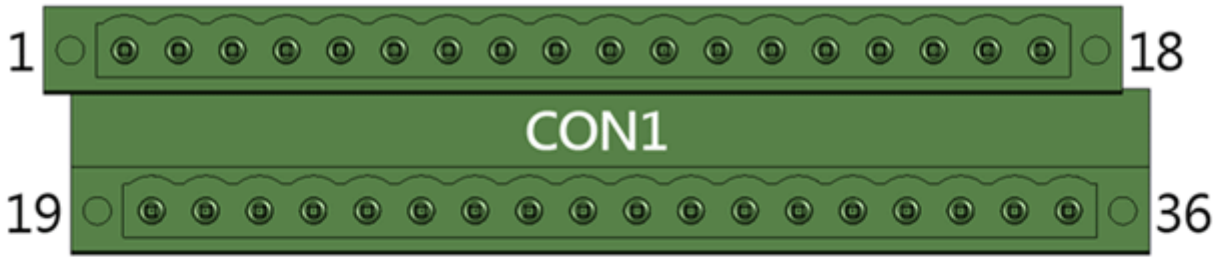
The DN-DI-32DW is a termination board with EMS protection. It provides sink and source connections for comprehensive applications. Moreover, the DN-DI-32DW supports wet and dry contact to fulfill most applications. In addition, this board also offers each channel one COM pin, the benefit for users is that they need no more additional terminal block for extending COM. Furthermore, the DN-DI-32DW offers removable fuse protection for the field loops with local indication of fuse failure and overvoltage and transient protection

## Specifications

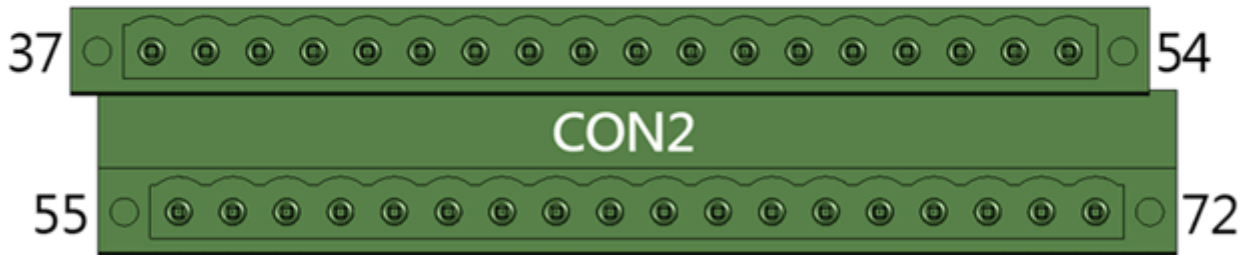
Digital Input		
Type		*Wet contact (Current sinking/sourcing) *Dry contact (Current sinking/sourcing)
Channel		32
Fuse ratings		320mA for each channel (With physical indication)
Transient protection	Peak Power Dissipation	3000 W
	Peak Forward Surge Current	250 A
General		
Dimension (W x L x H)		126.6 x 274.6 x 25.5 mm
Mounting		35 mm DIN Rail, Wall
Operating temperature		-25 ~ 75 °C
Humidity		5 ~ 95 % RH, Non-condensing

\*Wet/Dry contact is Jumper selectable

## PIN Assignments



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
NC	DI0	DI1	DI2	DI3	DI4	DI5	DI6	DI7	DI8	DI9	DI10	DI11	DI12	DI13	DI14	DI15	NC
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
NC	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	NC



37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
NC	DI16	DI17	DI18	DI19	DI20	DI21	DI22	DI23	DI24	DI25	DI26	DI27	DI28	DI29	DI30	DI31	NC
55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
NC	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	COM	NC

## Wiring

- Dry contact (Current sourcing)

Input Type	On State, LED On Readback as 1	Off State, LED Off Readback as 0
Relay Contact	Relay On 	Relay Off 
	Voltage < 1V 	Voltage > 3.5V 
Open Collector	Open Collector On 	Open Collector Off 

• **Dry contact (Current sinking)**

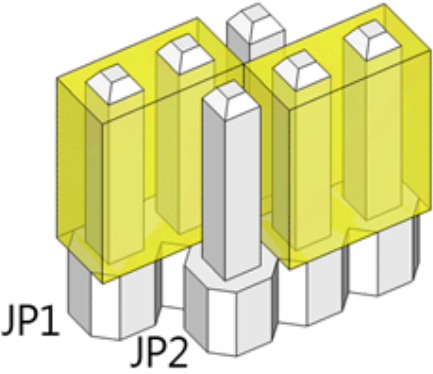
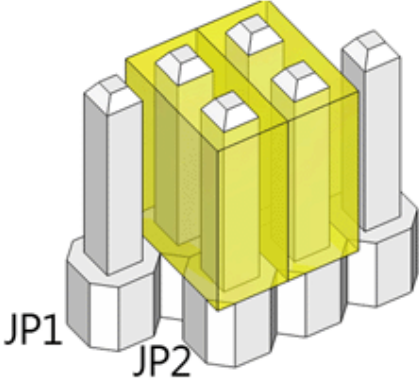
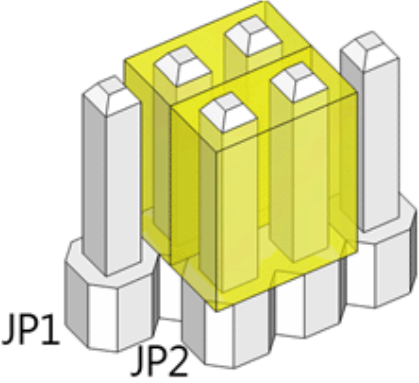
Input Type	ON State LED ON Readback as 0	OFF State LED OFF Readback as 1
Relay Contact	Relay ON	Relay Off
NPN Output	Open Collector On	Open Collector Off
PNP Output	Open Collector On	Open Collector Off

• **Wet contact (Current sinking/sourcing)**

Input Type	ON State LED ON Readback as 0	OFF State LED OFF Readback as 1
Relay Contact	Relay ON	Relay Off
TTL/CMOS Logic	Voltage > 3.5V	Voltage < 1V
NPN Output	Open Collector On	Open Collector Off
PNP Output	Open Collector On	Open Collector Off

## Jumper Setting

The DN-DI-32DW offers various wire connections to connect with field device to digital input module. It can be switched to different wire connection by changing jumper setting. The detail of jumper settings are described as following table.

		
<p style="text-align: center;"><b>Wet Contact</b> Current Sinking / Sourcing</p>	<p style="text-align: center;"><b>Dry Contact</b> Current Sinking</p>	<p style="text-align: center;"><b>Dry Contact</b> Current Sourcing</p>

NOTE: Please make sure the external power is attached as well when use dry contact wire connection.

## Ordering Information

DN-DI-32DW CR	Termination board for digital input with high EMS protection and removable fuses (RoHS)
---------------	---

## Accessories

CA-01	D-Sub 37pin Female-Male 1m Cable
CA-02	D-Sub 37pin Female-Male 2m Cable
CA-03	D-Sub 37pin Female-Male 3m Cable
CA-05	D-Sub 37pin Female-Male 5m Cable