



### Feature

- 16 Digital output channels
- Termination board break off detection
- Redundant



## DN-DO-16DR-B

Termination board for digital output with high EMS protection and removable relay

### Introduction

The DN-DO-16DR-A & DN-DO-16DR-B are termination boards with relay (Form C, SPDT) output. The DN-DO-16DR-A is used for digital output channel 0~15, and the DN-DO-16DR-B is used for digital output channel 16~31. These boards offer 2 output for each channel to extend control logic due to the Form C relay, it can be positive (N.O.) or negative (N.C.) logic output or both. In addition, each channel is built-in two varistors on N.O. and N.C. channel to protect against high-voltage transients and surges to the control loop.

### Specifications

Digital output		
Model	DN-DO-16DR-A	DN-DO-16DR-B
Number of channels	16 (DO 0~15)	16 (DO 16~31)
Type	Form C Relay	
Relay Contact		
Contact configuration	SPDT	
Rated current/Max. peak current	6A / 10A	
Rated voltage/Max. switching voltage	250V <sub>AC</sub> / 400V <sub>AC</sub>	
Minimum switching load	300mW	
Mechanical life	20 x 10 <sup>6</sup>	
Operate/Release time	8ms / 5ms	
Relay Coil		
Voltage input	24V <sub>DC</sub> ±10%	
Current consumption	400mA @24V <sub>DC</sub>	
Varistor protection		
Max. applied voltage (Continuous)	AC: 300 V <sub>rms</sub> DC: 385 V <sub>DC</sub>	
Rated voltage	470 V <sub>rms</sub>	
General		
Dimension	126.6 x 274.6 x 25.5 mm (W x L x H)	
Mounting	35 mm DIN Rail, Wall	
Operating temperature	-25 ~ 75 °C	
Humidity	5 ~ 95 % RH, Non-condensing	

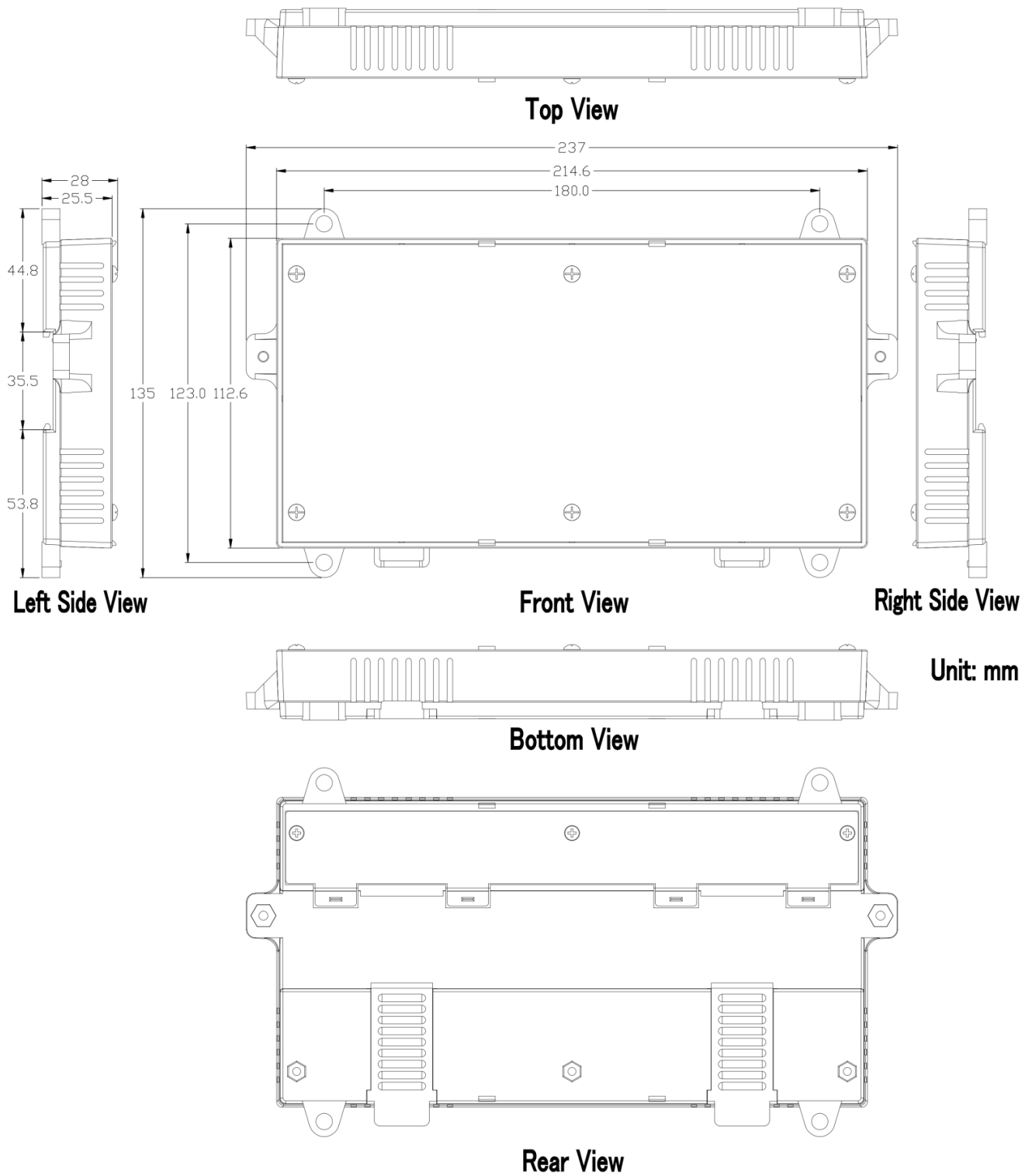
## Pin Assignment

CN1											
48											72
49	50	51	52	53	54	55	56	57	58	59	60
NO16	NC16	COM16	NO17	NC17	COM17	NO18	NC18	COM18	NO19	NC19	COM19
61	62	63	64	65	66	67	68	69	70	71	72
NO20	NC20	COM20	NO21	NC21	COM21	NO22	NC22	COM22	NO23	NC23	COM23
CN2											
73											96
73	74	75	76	77	78	79	80	81	82	83	84
NO24	NC24	COM24	NO25	NC25	COM25	NO26	NC26	COM26	NO27	NC27	COM27
85	86	87	88	89	90	91	92	93	94	95	96
NO28	NC28	COM28	NO29	NC29	COM29	NO30	NC30	COM30	NO31	NC31	COM31

## Wire Connections

Output Type	ON State LED ON Readback as 1	OFF State LED OFF Readback as 0
	Relay ON	Relay Off
From C Relay Contact		

■ Dimension (unit: mm)



■ Ordering Information

<p>DN-DO-16DR-B CR</p>	<p>Termination board for digital output with high EMS protection and removable relay (Ch16 ~ 31) (RoHS)</p>
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