Digital output module

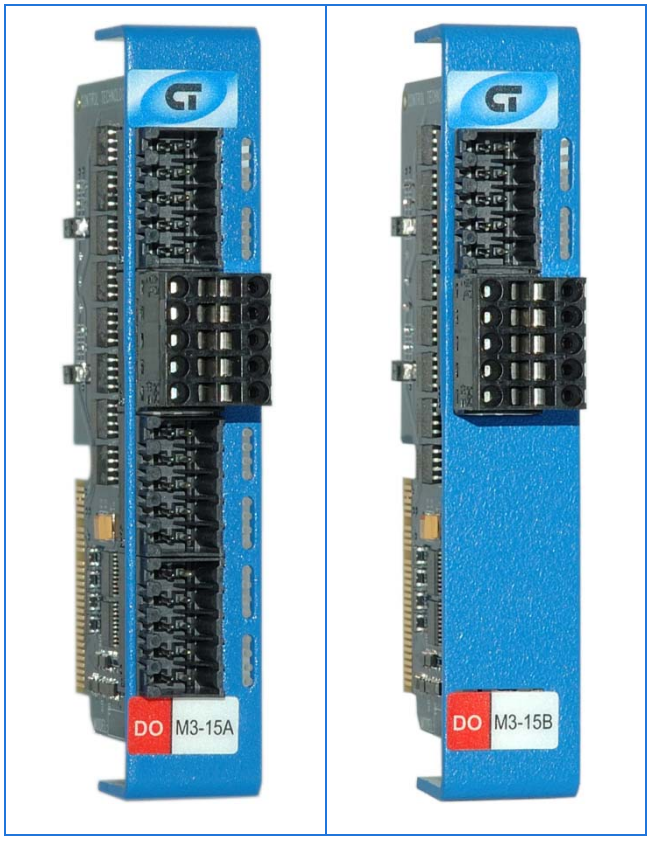
DO	M3-15A
DO	M3-15B

M3-15A: *32 sourcing outputs (+VS VDC)*
M3-15B: *16 sourcing outputs (+VS VDC)*

- *Open emitter PNP to the controller's voltage supply*
- *High current: 375 mA per output/3A per module*
- *Individual LED status indicator for each output*
- *Optically isolated*

General specifications

Outputs per module: M3-15A M3-15B	 32 16
Output type	Sourcing (PNP open collector)
Connection	Removable terminal block
Connection type	Tension clamp
Terminal block part number	069-621010
Terminal wire size (UL 1059)	18 - 22 AWG
Test point	All connections
Status indicator	One LED per channel
Module size	1 rack slot (0.75"/19 mm)
Isolation rating	500 VDC
Operating temperature Horizontal installation Vertical installation	 0 - 50°C 0 - 45°C
Storage temperature	-25 – 85°C
Humidity	5 – 95% non-condensing



Actual size

Minimum hardware revision	A
Minimum firmware revision	1.02
Minimum operating system revision	5.00.90
Documentation number: 950-531501-001	

Digital output module

DO M3-15A
DO M3-15B

Performance specifications

Parameter	Value
Nominal voltage (VN)	VS[1]
Max OFF voltage	Open emitter
Max ON voltage @:	
50 mA	VS – 0.7V
375 mA	VS – 1.4V
Max channel current	375 mA
Max module current	3 ADC
Max controller current	8 ADC
Max leak current/channel	100 µADC

1. *VS is voltage source applied to the controller.*
2. *In the OFF state, the outputs are pulled internally low to VDC RTN via a 10KΩ series resistor with an LED.*

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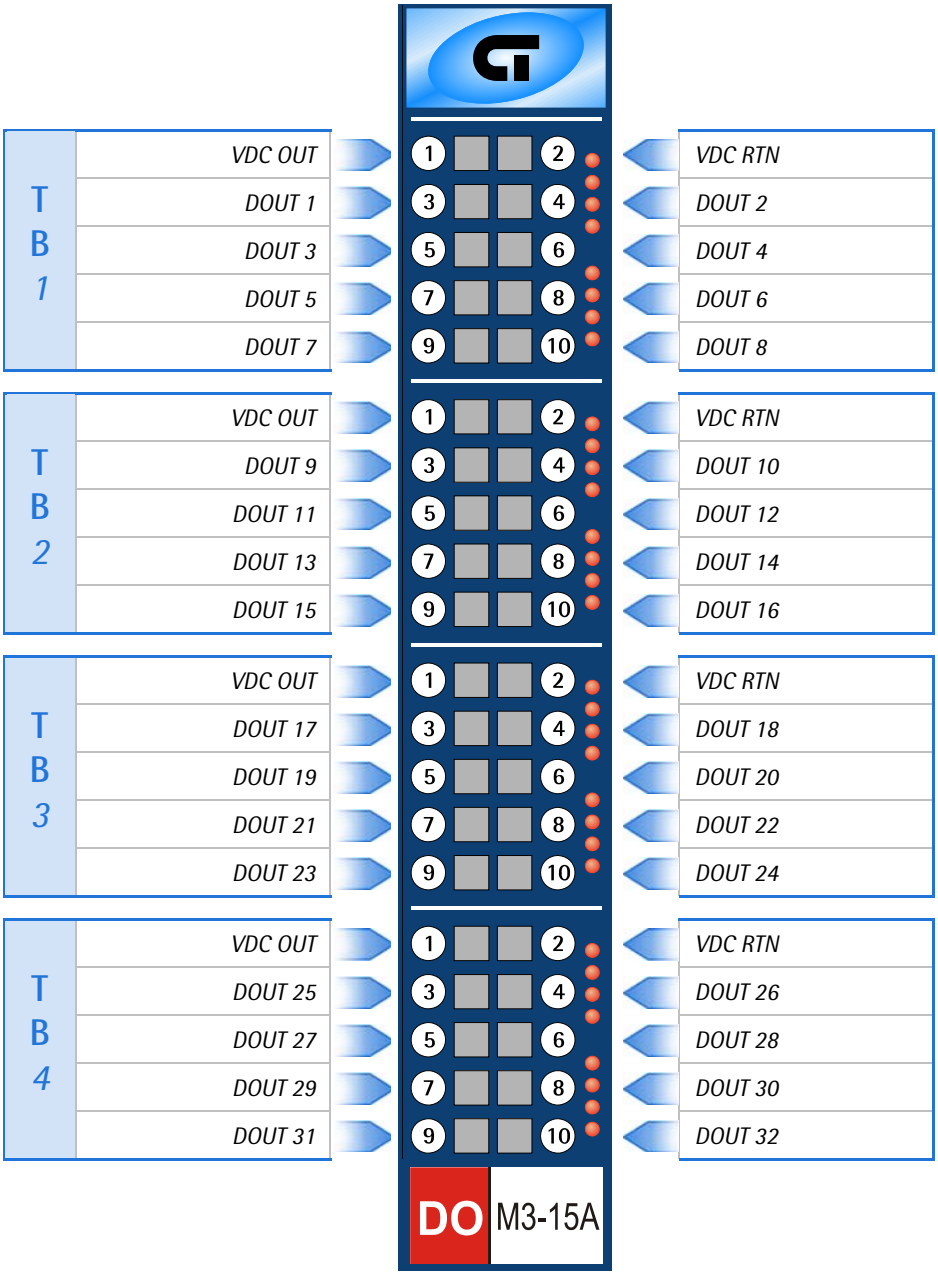
Terminal block connections



LED#	Indication
1	DO1
2	DO2
3	DO3
4	DO4
5	DO5
6	DO6
7	DO7
8	DO8
9	DO9
10	DO10
11	DO11
12	DO12
13	DO13
14	DO14
15	DO15
16	DO16
17	DO17
18	DO18
19	DO19
20	DO20
21	DO21
22	DO22
23	DO23
24	DO24
25	DO25
26	DO26
27	DO27
28	DO28
29	DO29
30	DO30
31	DO31
32	DO32

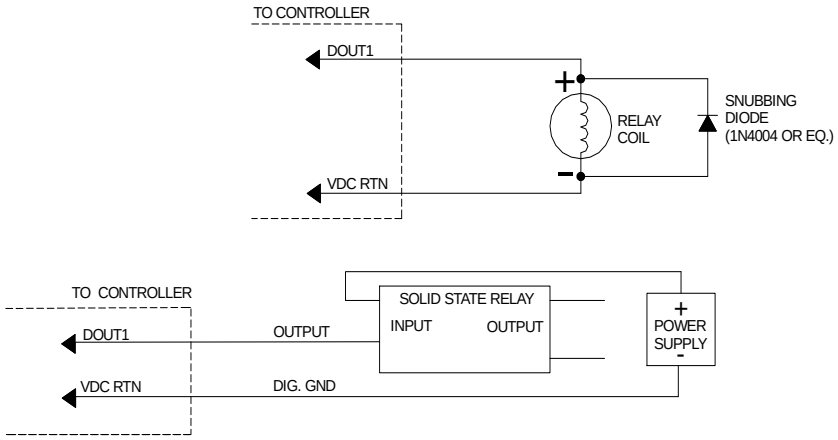
Note

1. *TB3 and TB4 not available on M3-15B.*

Digital output module

DO M3-15A
DO M3-15B

Application information



Notes

1. *Observe proper current limiting with transistor loads.*
2. *Use high-speed diode or equivalent to limit inductive load kicks.*
3. *When a digital device is powered via an external power source, it may be necessary to tie the ground of this power source to the controller's voltage supply ground (VDC RTN).*
4. *For register and programming information, refer to the appropriate controller Applications Guide.*
5. *The information and illustrations contained herein are the property of Control Technology Corporation and are subject to change without notice. Data based on VS = 24 VDC @ 25°C unless otherwise noted. For additional information and/or updates, visit www.ctc-control.com.*