

Digital input module

DI	M3-16E
DI	M3-16F

M3-16E: 32 sourcing inputs (+VS VDC)

M3-16F: 16 sourcing inputs (+VS VDC)

- ▶ Wide input hysteresis voltage for solid switch points
- ▶ Individual channel status LEDs
- ▶ Optically isolated

General specifications

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



Actual size

Minimum hardware revision	A, B
Minimum firmware revision	1.02
Minimum operating system revision	5.00.90
Documentation number: 950-531605-001	

5300 I/O Modules

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Performance specifications

Parameter	Value
Input voltage (VS)	10 - 32 VDC
Max voltage	32 VDC
Nominal voltage (VN)	24 VDC
Turn ON threshold	0.46 * VS
Turn OFF threshold	0.12 * VS
Min hysteresis voltage	0.17 * VS
Min input current	2.6 mA @ 24 VDC
Input resistance to VDC RTN	10 KΩ ± 10%
Min ON current	1.6 mA
Max OFF current	0.3 mA
Hardware filter	< 1 msec

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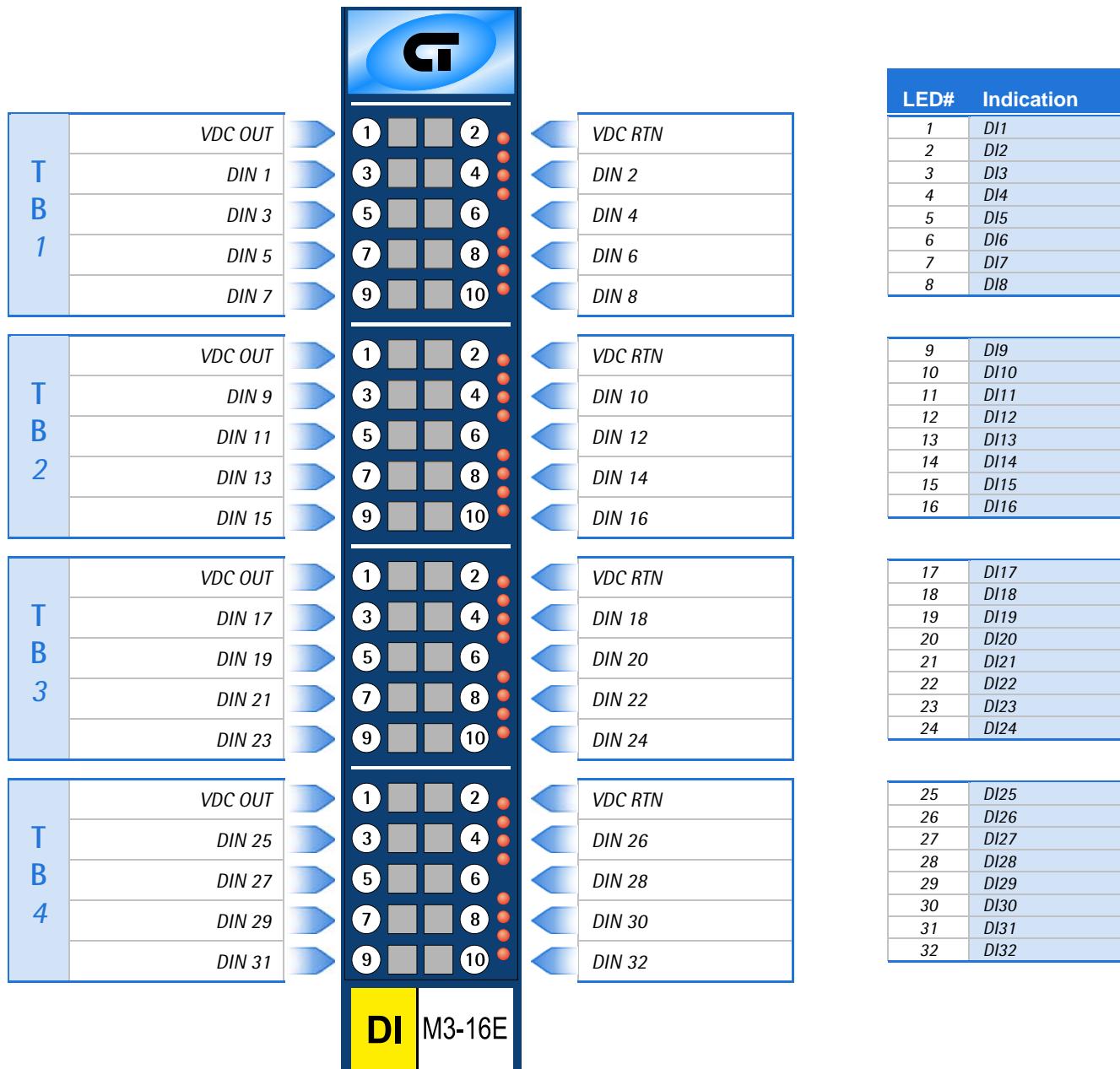
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Terminal block connections



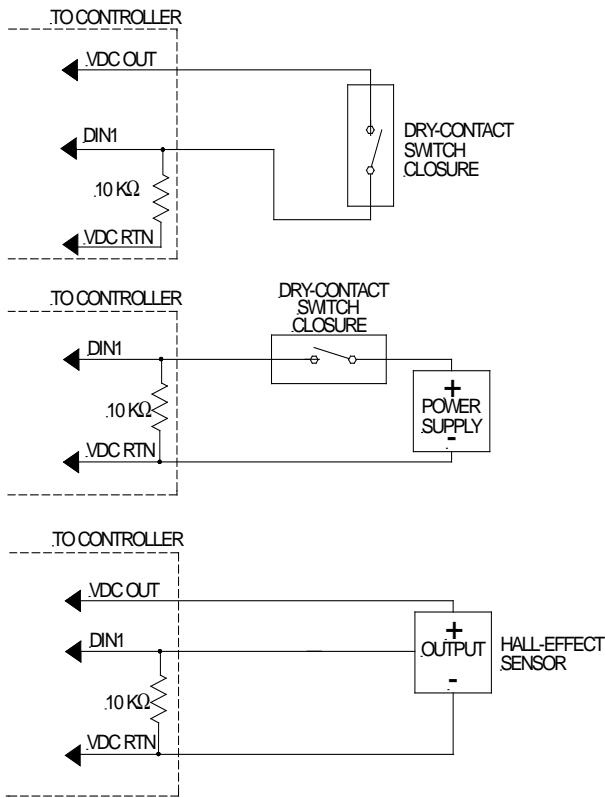
Note

1. TB3 and TB4 not available on M3-16F.

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Application information



Notes

1. 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).
2. For register and programming information, refer to the appropriate controller Applications Guide.
3. 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. Copyright © 2007 2012 Control Technology Corporation. All Rights Reserved.
4. VDC OUT = VS(DC voltage supplied to controller's power supply).