# Product data sheet Characteristics

# TM3DI32K

discrete input module, Modicon TM3, 32 inputs, HE10, 24V DC





# Main

Wilding	
Range of product	Modicon TM3
Product or component type	Discrete input module
Range compatibility	Modicon M241 Modicon M251 Modicon M221 Modicon M262
Discrete input number	32 for input conforming to IEC 61131-2 Type 1
Discrete input logic	Sink or source (positive/negative)
Discrete input voltage	24 V
Discrete input current	5 mA for input

#### Complementary

Di 110		
Discrete I/O number	32	
Current consumption	5 mA at 5 V DC via bus connector (at state off)	
	0 mA at 24 V DC via bus connector (at state on)	
	0 mA at 24 V DC via bus connector (at state off)	
	65 mA at 5 V DC via bus connector (at state on)	
Discrete input voltage type	DC	
Voltage state 1 guaranteed	1528.8 V for input	
Current state 1 guaranteed	>= 2.5 mA (input)	
Voltage state 0 guaranteed	05 V for input	
Current state 0 guaranteed	<= 1 mA (input)	
Input impedance	4.4 kOhm	
Response time	4 ms (turn-on)	
	4 ms (turn-off)	
Local signalling	1 LED per channel (green) for input status	
Electrical connection	HE-10 connectorfor inputs	
Maximum cable distance between devices	Unshielded cable: <30 m for regular input	
Insulation	Between input and internal logic at 500 V AC	
	Non-insulated between inputs	
Marking	CE	
Mounting support	Top hat type TH35-15 rail conforming to IEC 60715	
	Top hat type TH35-7.5 rail conforming to IEC 60715	
	Plate or panel with fixing kit	
Height	90 mm	
Depth	81.3 mm	
Width	33.5 mm	
Product weight	0.1 kg	

#### **Environment**

ENUE 0 04404 0
EN/IEC 61131-2
CULus CE
UKCA
RCM
EAC
CULus HazLoc
8 KV in air conforming to EN/IEC 61000-4-2
4 kV on contact conforming to EN/IEC 61000-4-2
10 V/M 80 MHz1 GHz conforming to EN/IEC 61000-4-3
3 V/M 1.4 GHz2 GHz conforming to EN/IEC 61000-4-3
1 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3
30 A/m 50/60 Hz conforming to EN/IEC 61000-4-8
1 kV for I/O conforming to EN/IEC 61000-4-4
1 kV I/O common mode conforming to EN/IEC 61000-4-5 DC
10 V 0.1580 MHz conforming to EN/IEC 61000-4-6
3 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) conforming to
Marine specification (LR, ABS, DNV, GL)
Radiated emissions - test level: 40 dBµV/m QP class A ( 10 m) at 30230 MHz
conforming to EN/IEC 55011
Radiated emissions - test level: 47 dBμV/m QP class A ( 10 m) at 230…1000 MHz conforming to EN/IEC 55011
-10…35 °C vertical installation -10…55 °C horizontal installation
-2570 °C
1095 %, without condensation (in operation)
1095 %, without condensation (in storage)
IP20 with protective cover in place
2
02000 m
03000 m
3.5 mm at 58.4 Hz on DIN rail
3 gn at 8.4150 Hz on DIN rail
3.5 mm at 58.4 Hz on panel
3 gn at 8.4150 Hz on panel
15 gn for 11 ms

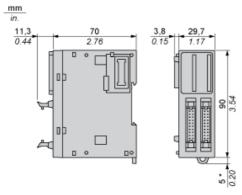
### **Packing Units**

PCE
1
7.639 cm
10.55 cm
12.87 cm
220.0 g
CAR
42
29.6 cm
40.3 cm
55.9 cm
10.431 kg
P12
504
105 cm
120 cm
80 cm
133 kg

## Offer Sustainability

onor odotamasmity	
Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	☑ China RoHS Declaration
RoHS exemption information	€Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

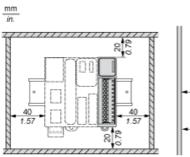
### **Dimensions**

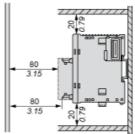


(\*) 8.5 mm/0.33 in. when the clamp is pulled out.

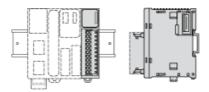
# TM3DI32K

## **Spacing Requirements**

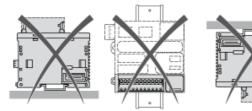




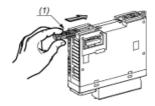
### Mounting on a Rail



# **Incorrect Mounting**

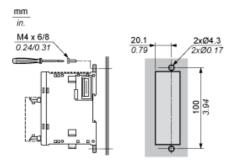


## Mounting on a Panel Surface



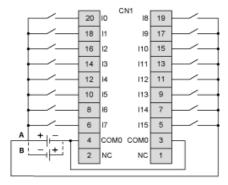
(1) Install a mounting strip

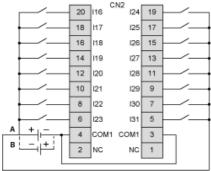
# Mounting Hole Layout



## Digital Input Module (32-channel, 24 Vdc)

### Wiring Diagram





The COM0 and COM1 terminals are not connected internally

- (A) Sink wiring (positive logic)
- (B) Source wiring (negative logic)