



Discrete I/O module, Modicon TM3, 8 IO (4 inputs, 4 relay outputs, screw) 24 VDC

TM3DM8R

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Range of product	Modicon TM3
Product or component type	Discrete I/O module
Range compatibility	Modicon M241 Modicon M251 Modicon M221 Modicon M262
Discrete input number	4 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	7 mA for input
Discrete output type	Relay normally open
Discrete output number	4
Discrete output logic	Positive or negative
Discrete output voltage	24 V DC for relay output 240 V AC for relay output
Discrete output current	2000 mA for relay output

Complementary	
Discrete I/O number	8
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) 25 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	3.4 kOhm
Response time	4 ms (turn-on) 4 ms (turn-off)
Maximum current per output common	7 A
Mechanical durability	20000000 cycles

LED per channel (speen) for 100 state	Minimum load	10 mA at 5 V DC for relay output
Maximum cable distance between devices Insulation Setueen input and internal logic at \$00 V AC Non-insulated between input and internal logic at \$00 V AC Between open contact at \$75 V AC Between open and internal logic at \$500 V AC Non insulated between values of \$75 V AC Between open and internal logic at \$500 V AC Non insulated between values of \$75 V AC Between open and internal logic at \$500 V AC Non insulated between values \$75 V AC Between open and	Local signalling	1 LED per channel (green) for I/O state
Insulation Between injust and internal togic at \$500 V AC Non-insulation and internal togic at \$500 V AC Between page contact at 769 V AC Between page contact at 769 V AC Between page 25 500 V AC Between page 25 500 V AC Between page 25 500 V AC Non-insulated tetreveen outputs Marking CE Mounting support Top hat type THSS-15 rail conforming to IEC 80715 Top hat type THSS-75 rail conformin	Electrical connection	11 x 2.5 mm² removable screw terminal block with pitch 5.08 mm adjustment for inputs and outputs
Non-installated between injudy and upon all 1500 V AC Between open control at 1750 V AC Non-installated between outputs at 1500 V AC Non-installated between outputs at 1500 V AC To the state of the proper open open open open open open open open		Unshielded cable: <30 m for regular input
Mounting support Top hat type TH35-15 rail conforming to IEC 80715 Top hat type TH35-75 rail conforming to IEC 80715 Top hat type TH35-75 rail conforming to IEC 80715 Phat type TH35-75 rail conforming to IEC 80715 Top hat type TH35-75 rail conforming to IEC 80715 Phat type Th35-75 rail rail rail rail rail rail rail rail	Insulation	Non-insulated between inputs Between input groups and output groups at 1500 V AC Between open contact at 750 V AC Between output and internal logic at 500 V AC
Top hat type TH38-7.5 rail conforming to IEC 60715 plate or panel with fixing kit Height 90 mm Width 97.4 mm Not weight 0.98 kg Environment Standards ENIEC 61131-2 ENIEC 61131-2 ENIEC 61131-2 ENIEC 61010-2-201 Product certifications C-Tick cluus Resistance to electrostatic discharge 10.0 mm of the time of time	Marking	CE
Depth 84.6 mm Width 27.4 mm Net weight 0.95 kg Environment Standards Envire 61010-2-201 Product certifications C-Tick cUlus Resistance to electrostatic discharge 8 kV on contact conforming to ENVIEC 61000-4-2 4 kV on contact conforming to ENVIEC 61000-4-2 4 kV on contact conforming to ENVIEC 61000-4-3 3 / m 1.4 CHz. 2.0 Hz. conforming to ENVIEC 61000-4-3 1 / m 2 GHz. 3 conforming to ENVIEC 61000-4-3 2 / m 3 / m 1.4 CHz. 2.0 Hz. conforming to ENVIEC 61000-4-3 3 / m 1.4 CHz. 2.0 Hz. conforming to ENVIEC 61000-4-3 2 / m 2 GHz. 3 GHz. 2.0 Hz. conforming to ENVIEC 61000-4-3 2 / m 2 GHz. 3 GHz. 2.0 Hz. conforming to ENVIEC 61000-4-3 3 / m 1.4 CHz. 2.0 Hz. conforming to ENVIEC 61000-4-3 2 / m 2 GHz. 3 GHz. 2.0 Hz. conforming to ENVIEC 61000-4-3 3 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-3 2 / m 2 GHz. 3 GHz. 2.0 Hz. conforming to ENVIEC 61000-4-4 2 / m 2 GHz. 3 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 2 / m 2 GHz. 3 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. 2 Hz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. conforming to ENVIEC 61000-4-5 1 / m 2 GHz. conforming to ENVIEC 61000-4-5 1 / m	Mounting support	Top hat type TH35-7.5 rail conforming to IEC 60715
Net weight 27.4 mm 0.95 kg	Height	90 mm
Environment Standards EN/IEC 61131-2 EN/IEC 61010-2-201 Product certifications C-Tick cULus Resistance to electrostatic discharge 4 kV in air conforming to EN/IEC 61000-4-2 4 kV on contact conforming to EN/IEC 61000-4-2 3 /m 1.4 CHZ 26Hz conforming to EN/IEC 61000-4-3 3 /m 1.4 CHZ 26Hz conforming to EN/IEC 61000-4-3 3 /m 1.4 CHZ 26Hz conforming to EN/IEC 61000-4-3 3 /m 1.4 CHZ 26Hz conforming to EN/IEC 61000-4-3 Resistance to magnetic fields 30 A/m 50/80 Hz conforming to EN/IEC 61000-4-3 Resistance to fast transients 1 kV for I/O conforming to EN/IEC 61000-4-8 Resistance to fast transients 1 kV for I/O conforming to EN/IEC 61000-4-4 2 kV for relay output conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 Resistance to conducted disturbances 10 V 0.1580 MHz conforming to EN/IEC 61000-4-6 3 V spot frequency (2, 3, 4, 6, 2, 8, 2, 12, 2, 16, 16, 5, 18.8, 22, 25 MHz) conforming to EN/IEC 61000-4-5 Rediated emissions - test level: 40 dBpt//m QP class A (10 m) at 30230 MHz conforming to EN/IEC 65011 Ambient air temperature for coperation -1035 °C vertical installation -1065 °C horizontal installation -1065 °C horiz	Depth	84.6 mm
Environment Standards EN/IEC 61131-2 EN/IEC 61010-2:201 Product certifications C-Totol C-Tot	Width	27.4 mm
Standards EN/IEC 61131-2 EN/IEC 61010-2-201	Net weight	0.95 kg
Standards EN/IEC 61131-2 EN/IEC 61010-2-201		
ENIEC 61010-2-201 Product certifications C-Tick cULus Resistance to electrostatic discharge 8 kW in air conforming to EN/IEC 61000-4-2 4 kW on contact conforming to EN/IEC 61000-4-3 3 W in 4.1 GHz. 2 GHz. conforming to EN/IEC 61000-4-3 3 W in 4.1 GHz. 2 GHz. conforming to EN/IEC 61000-4-3 1 W/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3 1 W/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3 1 W/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3 1 W/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3 1 W/m 2 GHz3 GHz conforming to EN/IEC 61000-4-8 Resistance to fast transients 1 kW for I/O conforming to EN/IEC 61000-4-4 2 kW for relay output conforming to EN/IEC 61000-4-4 Surge withstand 2 kW output common mode conforming to EN/IEC 61000-4-5 1 kW input common mode conforming to EN/IEC 61000-4-5 1 kW input common mode conforming to EN/IEC 61000-4-5 1 kW input common mode conforming to EN/IEC 61000-4-5 1 kW input common mode conforming to EN/IEC 61000-4-5 1 kW input common mode conforming to EN/IEC 61000-4-5 1 kW input common mode conforming to EN/IEC 61000-4-5 1 kW input common mode conforming to EN/IEC 61000-4-5 1 kW input common mode conforming to EN/IEC 61000-4-5 1 kW input common mode conforming to EN/IEC 61000-4-5 1 kW input common mode conforming to EN/IEC 61000-4-5 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6 1 kW input common mode conforming to EN/IEC 61000-4-6		ENVIEW ALLAND
Resistance to electrostatic discharge 8 kV in air conforming to EN/IEC 61000-4-2 4 kV on contact conforming to EN/IEC 61000-4-2 Resistance to electromagnetic fields 10 V/m 80 MHz1 GHz conforming to EN/IEC 61000-4-3 3 V/m 14 GHz2 GHz conforming to EN/IEC 61000-4-3 3 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3 3 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3 4 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3 Resistance to magnetic fields 1 kV for I/O conforming to EN/IEC 61000-4-4 2 kV for relay output conforming to EN/IEC 61000-4-4 2 kV for relay output conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 2 kV spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.6, 22, 25 MHz) conforming to Marine specification (LR, ABS, DNV, GL) Electromagnetic emission Rediated emissions - test level: 40 dBjt/Im QP class A (10 m) at 30230 MHz conforming to EN/IEC 55011 Ambient air temperature for -1035 °C vertical installation -1055 °C horizontal installation -1055 °C horizontal installation -1055 °C horizontal installation -1055 °C horizontal installation -1095 %, without condensation (in operation) 1096 %, without condensation (in storage) IP degree of protection Pollution degree 2 Operating altitude 02000 m Storage altitude 03000 m Vibration resistance 3.5 mm at 58.4 Hz on DIN rail 3.5 mm at 58.4 Do n panel 3 gn at 8.4150 Hz on panel 3 gn at 8.4150 Hz on panel 3 gn at 8.4150 Hz on panel	Standards	
Resistance to electromagnetic fields 10 V/m 80 MHz1 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz3 GHz conforming to EN/IEC 61000-4-8 Resistance to fast transients 1 kV for I/O conforming to EN/IEC 61000-4-4 2 kV for relay output common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input conforming to EN/IEC 61000-4-5 1	Product certifications	
Surge withstand 3 V/m 1.4 GHz 2 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz 3 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz 3 GHz conforming to EN/IEC 61000-4-8		
Resistance to fast transients 1 kV for I/O conforming to EN/IEC 61000-4-4 2 kV for relay output common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input comforming to EN/IEC 61000-4-6 1 kV input comforming to EN/IEC 61		3 V/m 1.4 GHz2 GHz conforming to EN/IEC 61000-4-3
2 kV for relay output conforming to EN/IEC 61000-4-4 Surge withstand 2 kV output common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-6 1 kV input common mode conforming to EN/IEC 61000-4-6 1 kV input common mode conforming to EN/IEC 61000-4-6 1 kV input common mode conforming to EN/IEC 61000-4-6 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-5 1 kV input common mode conforming to EN/IEC 61000-4-6 1 kV input common mode conforming to EN/IEC 61000-4-6 1 kV input common mode conforming to EN/IEC 61000-4-6 1 kV input common mode conforming to EN/IEC 61000-4-6 1 kV input comforming to EN/IEC 61000-4-6 1 kV input comforming to EN/IEC 61000-4-6 1 kV input conforming to EN/IEC 61000-4-5 1 kV input conforming to EN/IEC 61000-4-5 1 kV input conforming to EN/IEC 61000-4-10 1 kV input conforming to EN/IEC 61000-4-10 1 kV input conforming to EN/IEC 61000-4-10 1 kV inpu	Resistance to magnetic fields	30 A/m 50/60 Hz conforming to EN/IEC 61000-4-8
1 kV input common mode conforming to EN/IEC 61000-4-5 Resistance to conducted disturbances 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) Electromagnetic emission 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 2301000 MHz conforming to EN/IEC 55011 Ambient air temperature for operation -1035 °C vertical installation Ambient air temperature for storage relative humidity 1095 %, without condensation (in operation) 1095 %, without condensation (in storage) IP degree of protection IP20 with protective cover in place Pollution degree 2 Operating altitude 02000 m Storage altitude 03000 m Vibration resistance 3.5 mm at 58.4 Hz on DIN rail 3 gn at 8.4150 Hz on panel 3 gn at 8.4150 Hz on panel 3 gn at 8.4150 Hz on panel	Resistance to fast transients	
disturbances 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 2301000 MHz conforming to EN/IEC 55011 Ambient air temperature for operation -1035 °C vertical installation -1055 °C horizontal installation -2570 °C Relative humidity 1095 %, without condensation (in operation) 1095 %, without condensation (in storage) IP degree of protection IP20 with protective cover in place Pollution degree 2 Operating altitude 02000 m Storage altitude 03000 m Vibration resistance 3.5 mm at 58.4 Hz on DIN rail 3.5 mm at 58.4 Hz on panel 3 gn at 8.4150 Hz on panel 3 gn at 8.4150 Hz on panel	Surge withstand	
S5011 Radiated emissions - test level: 47 dBµV/m QP class A (10 m) at 2301000 MHz conforming to EN/ IEC 55011 Ambient air temperature for operation -1035 °C vertical installation -1055 °C horizontal installation -2570 °C Relative humidity -2570 °C Relative humidity 1095 %, without condensation (in operation) 1095 %, without condensation (in storage) IP degree of protection IP20 with protective cover in place Pollution degree 2 Operating altitude 02000 m Storage altitude 03000 m Vibration resistance 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		3 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) conforming to Marine specification
operation -1055 °C horizontal installation Ambient air temperature for storage Relative humidity 1095 %, without condensation (in operation) 1095 %, without condensation (in storage) IP degree of protection IP20 with protective cover in place Pollution degree 2 Operating altitude 02000 m Storage altitude 03000 m Vibration resistance 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	Electromagnetic emission	55011 Radiated emissions - test level: 47 dBµV/m QP class A (10 m) at 2301000 MHz conforming to EN/
Relative humidity 1095 %, without condensation (in operation) 1095 %, without condensation (in storage) IP degree of protection IP20 with protective cover in place Pollution degree 2 Operating altitude 02000 m Storage altitude 03000 m Vibration resistance 3.5 mm at 58.4 Hz on DIN rail 3.5 mm at 58.4 Hz on panel 3.5 mm at 58.4 Hz on panel 3 gn at 8.4150 Hz on panel	-	
IP degree of protection IP20 with protective cover in place Pollution degree 2 Operating altitude 02000 m Storage altitude 03000 m Vibration resistance 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		-2570 °C
Pollution degree 2 Operating altitude 02000 m Storage altitude 03000 m Vibration resistance 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	Relative humidity	
Operating altitude 02000 m Storage altitude 03000 m Vibration resistance 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	IP degree of protection	IP20 with protective cover in place
Storage altitude 03000 m Vibration resistance 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	Pollution degree	2
Vibration resistance 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	Operating altitude	02000 m
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	Storage altitude	03000 m
Shock resistance 15 gn for 11 ms	Vibration resistance	3 gn at 8.4150 Hz on DIN rail 3.5 mm at 58.4 Hz on panel
	Shock resistance	15 gn for 11 ms

Packing Units

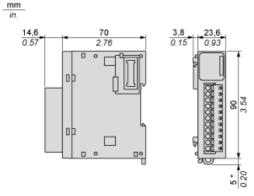
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	230.0 g
Package 1 Height	7.5 cm
Package 1 width	12.5 cm
Package 1 Length	10.5 cm
Unit Type of Package 2	S04
Number of Units in Package 2	42
Package 2 Weight	10.643 kg
Package 2 Height	30.0 cm
Package 2 width	40.0 cm
Package 2 Length	60.0 cm

Offer Sustainability

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) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
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 Drawings

Dimensions

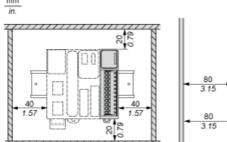


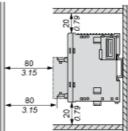
(*) 8.5 mm/0.33 in. when the clamp is pulled out.

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Mounting and Clearance

Spacing Requirements

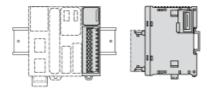




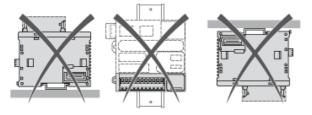
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Mounting and Clearance

Mounting on a Rail



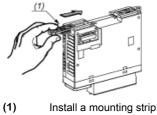
Incorrect Mounting



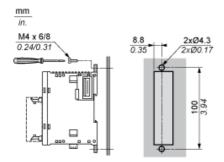
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Mounting and Clearance

Mounting on a Panel Surface



Mounting Hole Layout

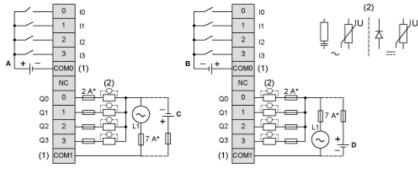


TM3DM8R

Connections and Schema

Digital Mixed I/O Module (8-channel)

Wiring Diagram (Sink / Source)



- Type T fuse
- The COM0 and COM1 terminals are **not** connected internally.
- To improve the life time of the contacts, and to protect from potential inductive load damage, it is recommended to connect a free wheeling diode Sink wiring (positive logic)
 Source wiring (negative logic)
 Source wiring (positive logic)
 Sink wiring (negative logic)

- (*) (1) (2) (A) (B) (C) (D)