

TM5SDM8DTS

Discrete I/O module, Modicon TM5, Digital input/output 4DI/4DO 24 V dcTime stamp 1 wire



Main

Range of product	Modicon TM5
Product or component type	Discrete I/O module
Discrete input number	4
Discrete input voltage	24 V
Discrete output number	4
Discrete output type	Transistor

Complementary

Range compatibility	PacDrive LMC motion controller
Product compatibility	PacDrive LMC Pro 2 PacDrive LMC Pro PacDrive LMC Eco
Discrete input voltage type	DC
Input voltage limits	20.4...28.8 V
Discrete input logic	Sink
Discrete input current	1.3 mA
Input impedance	18.4 kOhm
Output voltage	24 V DC
Output voltage limits	20.4...28.8 V
Discrete output logic	Source
Current per channel	0.1 A
Maximum current per output common	0.4 A
Colour	White
Peak output current	0.4 A
Switching frequency	<= 16 kHz resistive load
Input filtering	>= 2 µs hardware
Response time	<= 2 µs from state 0 to state 1 for output <= 2 µs from state 1 to state 0 for output
Maximum leakage current	25 µA when switched off
Protection type	Overload protection Short-circuit protection Inductive overvoltage
Isolation	No insulation between channels 500 Vrms AC insulation between channel and bus
Maximum voltage drop	<0.9 V at 0.1 A for output
Maximum supply current for sensors	600 mA
Current consumption	2 mA at 5 V DC bus 62.5 mA at 24 V DC input/output
Maximum power dissipation in W	1.51 W
Local signalling	1 LED green for power supply 1 LED red for power supply 8 LEDs for input/output status
Electrical connection	1 wire
Net weight	0.025 kg

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Environment

Standards	UL 508 CSA C22.2 No 142 EN/IEC 61131-2
Product certifications	EAC CULus CE C-Tick
Ambient air temperature for operation	-10...60 °C with derating factor (horizontal installation) -10...50 °C with derating factor (vertical installation)
Ambient air temperature for storage	-40...70 °C
Relative humidity	5...95 % without condensation
IP degree of protection	IP20 conforming to EN/IEC 60529
Pollution degree	2 conforming to EN/IEC 61131-2
Operating altitude	0...2000 m
Storage altitude	0...3000 m
Vibration resistance	1 gn at 8.4...150 Hz on DIN rail 3.5 mm at 5...8.4 Hz on DIN rail
Shock resistance	15 gn for 11 ms
Electromagnetic compatibility	Electrostatic discharge immunity test, 4 kV on contact conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz conforming to EN/IEC 61000-4-3 Electrical fast transient/burst immunity test, 1 kV I/O conforming to EN/IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable conforming to EN/IEC 61000-4-4 Electrical fast transient/burst immunity test, 2 kV power lines conforming to EN/IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV differential mode conforming to EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV common mode conforming to EN/IEC 61000-4-5 Conducted RF disturbances conforming to EN/IEC 61000-4-6 Conducted and radiated emissions conforming to CISPR 11

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	39 g
Package 1 Height	2 cm
Package 1 width	6 cm
Package 1 Length	11 cm