

TM5SDM8DTS

Discrete I/O module, Modicon TM5, Digital input/output 4DI/4DO 24 V dc
Time 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
Color	White
Peak output current	0.4 A
Switching frequency	<= 16 kHz resistive
Input filtering	>= 2 µs hardware
Response time	<= 2 µs from state 0 to state 1 output <= 2 µs from state 1 to state 0 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 output
Maximum supply current for sensors	600 mA
Current consumption	2 mA 5 V DC bus 62.5 mA 24 V DC input/output
Maximum power dissipation in W	1.51 W
Local signalling	1 LED green power supply 1 LED red power supply 8 LEDs input/output status
Electrical connection	1 wire
Net Weight	0.06 lb(US) (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	14...140 °F (-10...60 °C) with derating factor horizontal installation) 14...122 °F (-10...50 °C) with derating factor vertical installation)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Relative Humidity	5...95 % without condensation
IP degree of protection	IP20EN/IEC 60529
Pollution degree	2 EN/IEC 61131-2
Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0.00...9842.52 ft (0...3000 m)
Vibration resistance	1 gn 8.4...150 Hz DIN rail 3.5 mm 5...8.4 Hz DIN rail
Shock resistance	15 gn 11 ms
Electromagnetic compatibility	Electrostatic discharge immunity test, 4 kV on contact EN/IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air EN/IEC 61000-4-2 Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz EN/IEC 61000-4-3 Electrical fast transient/burst immunity test, 1 kV I/O EN/IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable EN/IEC 61000-4-4 Electrical fast transient/burst immunity test, 2 kV power lines EN/IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV differential mode EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV common mode EN/IEC 61000-4-5 Conducted RF disturbances EN/IEC 61000-4-6 Conducted and radiated emissions CISPR 11