



Main

Range of product	Modicon TM5
Product or component type	Safety dc discrete output module
Discrete output number	6
Discrete output type	Solid state

Complementary

Range compatibility	PacDrive LMC motion controller
Product compatibility	PacDrive LMC Pro PacDrive LMC Eco PacDrive LMC Pro 2
Output voltage	24 V DC
Output voltage limits	20.4...28.8 V
Discrete output logic	Source
Current per channel	0.2 A
Current per output common	<= 2 A
Colour	Red
Peak output current	<= 12 A
Switching frequency	<= 500 Hz resistive load
Leakage current	10 µA when switched off
Protection type	Overload protection Short-circuit protection
Isolation	No insulation between channels 500 Vrms AC insulation between channel and bus
Power consumption in W	1.3 W for internal 0.25 W for bus
Local signalling	4 LEDs red/orange for output status 2 LEDs red for safety status 1 LED red for power supply 1 LED green for power supply
Electrical connection	2 wires
Marking	CE
Safety level	PL = e conforming to EN 13849-1 SIL 3 conforming to IEC 62061 SIL 3 conforming to IEC 61508
Safety reliability data	PFH < 1E-9 PFD < 1E-5 MTTFd > 100 years
Product weight	0.025 kg

Environment

Standards	CSA C22.2 No 142 EN 13849-1 IEC 61131-2 IEC 61508 UL 508 IEC 62061
Product certifications	CSA CULus
Ambient air temperature for operation	-10...55 °C horizontal installation -10...50 °C vertical installation
Ambient air temperature for storage	-40...70 °C
Relative humidity	5...95 % without condensation
IP degree of protection	IP20 conforming to EN 60529
Pollution degree	2 conforming to IEC 60664
Operating altitude	0...2000 m
Storage altitude	0...3000 m
Vibration resistance	3.5 mm (f = 5...8.4 Hz) DIN rail 1 gn (f = 8.4...150 Hz) DIN rail
Shock resistance	15 gn for 11 ms
Electromagnetic compatibility	Conducted and radiated emissions conforming to CISPR 11 Conducted RF disturbances conforming to EN/IEC 61000-4-6 1.2/50 µs shock waves immunity test (1 kV - common mode) conforming to EN/IEC 61000-4-5 1.2/50 µs shock waves immunity test (0.5 kV - differential mode) conforming to EN/IEC 61000-4-5 Electrical fast transient/burst immunity test (2 kV - power lines) 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 (1 kV - I/O) conforming to EN/IEC 61000-4-4 Susceptibility to electromagnetic fields (10 V/m - 80...2000 MHz) conforming to EN/IEC 61000-4-3 Electrostatic discharge immunity test (8 kV - in air) conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test (4 kV - on contact) conforming to EN/IEC 61000-4-2