



Main

Range of product	Modicon TM5
Product or component type	Safety discrete I/O module
Discrete input number	6
Discrete input voltage	24 V
Discrete output number	2
Discrete output type	Transistor

Complementary

Range compatibility	PacDrive LMC motion controller
Product compatibility	PacDrive LMC Eco PacDrive LMC Pro 2 PacDrive LMC Pro
Discrete input voltage type	DC
Input voltage limits	20.4...28.8 V
Discrete input logic	Sink
Discrete input current	2.48 mA
Input impedance	9.68 kOhm
Output voltage	24 V DC
Output voltage limits	20.4...28.8 V
Discrete output logic	Source
Colour	Red
Voltage state 0 guaranteed	≤ 5 V
Voltage state 1 guaranteed	≥ 15 V
Input filtering	≤ 500 ms configurable by software ≤ 150 ms hardware
Protection type	Short-circuit protection Overload protection
Isolation	No insulation between channels 500 Vrms AC insulation between channel and bus
Maximum power consumption in W	0.25 W for bus 1.4 W for internal
Local signalling	1 LED green for power supply 1 LED red for power supply 2 LEDs red for safety status 2 LEDs red/orange for output status 6 LEDs green/red for input status
Electrical connection	2 wires
Marking	CE
Safety level	SIL 3 conforming to IEC 61508 SIL 3 conforming to IEC 62061 PL = e conforming to EN 13849-1
Safety reliability data	PFD < 1E-5 PFH < 1E-9 MTTFd = 2500 years
Net weight	0.066 kg

Environment

Standards	CSA C22.2 No 142 EN 13849-1 IEC 61508 IEC 62061 IEC 61131-2
Product certifications	CSA CULus
Ambient air temperature for operation	0...50 °C (vertical installation) 0...55 °C (horizontal installation)
Ambient air temperature for storage	-25...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	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

Package 1 Weight	0.047 kg
Package 1 Height	31.000 mm
Package 1 width	60.000 mm
Package 1 Length	104.000 mm

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