Product data sheet
Characteristics

TM5SDM4DTRFS
Safety discrete I/O module, Modicon TM5, digital 2I, 2O, 24V DC, 6 A, relay n/o



Main

Range of product	Modicon TM5
Product or component type	Safety discrete I/O module
Product compatibility	PacDrive LMC Pro PacDrive LMC Pro 2 PacDrive LMC Eco
Range compatibility	PacDrive LMC motion controller
Discrete input number	2
Discrete input voltage	24 V DC (voltage limits: 20.4...28.8 V)
Discrete input logic	Sink
Discrete output number	2
Discrete output logic	Source
Discrete output voltage	24 V DC (20.4...28.8 V) for relay

Complementary

Discrete input number	2 at 24 V DC
Discrete input current	3.3 MA at 24 V DC
Voltage state 1 guaranteed	>= 15 V
Voltage state 0 guaranteed	<= 5 V
Input impedance	7.3 kOhm
Input filtering	<= 500 ms configurable by software <= 150 ms hardware
Discrete output number	2 relay at 24 V DC
Safety level	SIL 3 conforming to IEC 61508 SIL 3 conforming to IEC 62061 PL = e conforming to EN 13849-1
Safety reliability data	MTTFd > 100 years PFD < 1E-5 PFH < 1E-9
Electrical connection	2 wires
Local signalling	1 LED (green) for power supply 1 LED (red) for power supply 2 LEDs (green/red) for input status 2 LEDs (red) for safety status 2 LEDs (red/orange) for output status
Height	99 Mm
Width	25 Mm
Depth	75 Mm

Net weight	0.025 Kg
Electromagnetic compatibility	Electrostatic discharge immunity test, 4 kV on contact conforming to IEC 61000-4-2 Electrostatic discharge immunity test, 8 kV in air conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields, 10 V/m 80...2000 MHz conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test, 1 kV I/O conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test, 1 kV shielded cable conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test, 2 kV power lines conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test, 0.5 kV differential mode conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test, 1 kV common mode conforming to IEC 61000-4-5 Conducted RF disturbances conforming to IEC 61000-4-6 Conducted and radiated emissions conforming to CISPR 11

Environment

IP degree of protection	IP20
Marking	CE
Product certifications	CSA[RETURN]CULus[RETURN]GOST-R
Standards	CSA C22.2 No 142 IEC 62061 IEC 61131-2 IEC 61508 UL 508 EN 13849-1
Ambient air temperature for operation	-10…50 °C (vertical installation) -10…55 °C (horizontal installation)
Ambient air temperature for storage	-40…70 °C
Relative humidity	5…95 % without condensation
Operating altitude	0...2000 m
Pollution degree	2
Vibration resistance	1 gn (f = 8.4…150 Hz) on DIN rail 3.5 mm (f = 5…8.4 Hz) on DIN rail
Shock resistance	15 gn for 11 ms

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.200 Cm
Package 1 Width	6.000 Cm
Package 1 Length	10.800 Cm
Package 1 Weight	10.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	5.395 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	47 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.3366178163049432
Carbon footprint of the manufacturing phase [A1 to A3]	0.3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0035013810894026095
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.006906311772145386
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	46.389136591617955
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	46 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes

Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.01595178748693268
Carbon footprint of the end-of-life phase [C1 to C4]	0 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	47
Packaging made with recycled cardboard	No
Packaging without single use plastic	Yes
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised