Product data sheet
Characteristics

TM3DI16
discrete input module, Modicon TM3, 16 inputs, screw, 24V DC



Main

Range of product	Modicon TM3
Product or component type	Discrete input module
Range compatibility	Modicon M241 Modicon M251 Modicon M221 Modicon M262
Device application	Industrial application
Discrete input number	16
Discrete input voltage	24 V DC
Discrete input logic	Sink or source (positive/negative)

Complementary

Discrete input number	16 conforming to IEC 61131-2 type 3
Discrete input current	7 MA
Voltage state 1 guaranteed	15...28.8 V DC
Voltage state 0 guaranteed	0...5 V DC
Current state 1 guaranteed	>= 2.5 mA
Current state 0 guaranteed	<= 1 mA
Input impedance	3.4 kOhm
Response time on input	4 ms (maximum (turn on)) 4 ms (maximum (turn off))
Safety reliability data	MTBF = 250 years 40 °C
Sensor power supply	19.2…28.8 V
Power supply type	Electronic powered by internal bus
Typical current consumption	34 MA at 5 V DC
Electrical connection	10 x 1...2.5 mm² removable screw terminal block with pitch 3.81 mm adjustment for inputs
Maximum cable distance between devices	Unshielded cable: <50 m for regular input
Isolation between channels and bus	500 V AC
Local signalling	1 LED per channel (green) for input status
Housing colour	Grey
AWG gauge	0.14…1.5 Mm² / 26 AWG...16 AWG with solid cable
Mounting support	Top hat type TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail conforming to IEC 60715 plate or panel with fixing kit
Height	90 Mm
Width	27.4 Mm
Depth	84.6 Mm
Net weight	0.1 Kg

Environment

IP degree of protection	IP20
Protective treatment	None
Marking	CE
Product certifications	CE[RETURN]CULus[RETURN]UKCA[RETURN]RCM[RETURN]EAC[RETURN]CULus HazLoc
Standards	IEC 61131-2
Ambient air temperature for operation	-10…35 °C (vertical installation) -10…55 °C (horizontal installation)
Ambient air temperature for storage	-25…70 °C
Relative humidity	10…95 % without condensation for operation 10…95 % without condensation for storage
Operating altitude	0...2000 m
Pollution degree	2
Vibration resistance	3.5 mm (f = 5…8.4 Hz) on DIN rail 3 gn (f = 8.4…150 Hz) on DIN rail 3.5 mm (f = 5…8.4 Hz) on panel mounting 3 gn (f = 8.4…150 Hz) on panel mounting
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	7.345 Cm
Package 1 Width	10.498 Cm
Package 1 Length	12.471 Cm
Package 1 Weight	210.8 G
Unit Type of Package 2	S04
Number of Units in Package 2	42
Package 2 Height	30 Cm
Package 2 Width	40 Cm
Package 2 Length	60 Cm
Package 2 Weight	10.5 Kg
Unit Type of Package 3	P12
Number of Units in Package 3	504
Package 3 Height	105 Cm
Package 3 Width	120 Cm
Package 3 Length	80 Cm
Package 3 Weight	132 Kg

Offer Sustainability

Recyclability potential, in %	3
Total lifecycle Carbon footprint	20 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	13.392145483761825
Carbon footprint of the manufacturing phase [A1 to A3]	13 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.046284827380868684
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.005458364118522915
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	6.450824694978291
Carbon footprint of the use phase [B2, B3, B4, B6]	6 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.49559575384475885
Carbon footprint of the end-of-life phase [C1 to C4]	0.5 kg CO2 eq.

Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	20
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised