

TM3XFHSC202

Module high speed counting, Modicon TM3, 2 channels HSC Event management, 10 inputs, 8 outputs (screw)



Main

Range of product	Modicon TM3
Product or component type	Module high speed counting
Range compatibility	Modicon M262
[Us] rated supply voltage	24 V DC by external supply (- 15...20 %)
Number of input channels	10
Number of output channels	8
Discrete I/O number	18

Complementary

Current consumption	100 mA at 5 V DC 50 mA at 24 V DC
Counting frequency	200 kHz
Discrete input voltage	24 V DC
Electrical circuit type	Standard input Latch input
Discrete input logic	Sink or source
Output voltage	24 V DC for transistor output
Output voltage limits	30 V DC
Discrete output current	300 mA for fast output (Q0...Q7)
Discrete output logic	Source
Output protection type	Against overload and short-circuits
Reset	Automatic reset
Local signalling	1 LED for I/O 1 LED for RUN 1 LED for ERR
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
Services	HSC simple - functions available: One shot/Modulo HSC main single phase - functions available: One shot/Modulo/Event counting HSC main dual phase - functions available: Modulo/Free-large Period meter - functions available: Edge to Edge, Edge to Opposite
Counting mode	2 main expert function (main counting function, frequency meter, period meter) Max 8 simple counting function
Event management	8 maximum per PLC <= 100 µs Thresholds < 10 µs
Height	90 mm
Depth	85 mm
Width	39 mm
Net weight	150 g

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Environment

Product certifications	CSA CULus IACS E10 RCM
Standards	CSA C22.2 No 142 ANSI/ISA 12-12-01 UL 1604 CSA C22.2 No 213 EN/IEC 61131-2:2007 UL 508
Resistance to electrostatic discharge	8 kV in air conforming to EN/IEC 61000-4-2 4 kV on contact conforming to EN/IEC 61000-4-2
Resistance to electromagnetic fields	10 V/M 80 MHz...1 GHz conforming to EN/IEC 61000-4-3 3 V/M 1.4 GHz...2 GHz conforming to EN/IEC 61000-4-3 1 V/m 2 GHz...3 GHz conforming to EN/IEC 61000-4-3
Resistance to fast transients	2 kV for alimentation cable conforming to EN/IEC 61000-4-4 1 kV for Ethernet line conforming to EN/IEC 61000-4-4 1 kV for serial link conforming to EN/IEC 61000-4-4 1 kV for input conforming to EN/IEC 61000-4-4 1 kV for transistor output conforming to EN/IEC 61000-4-4
Resistance to conducted disturbances	10 V 0.15...80 MHz conforming to EN/IEC 61000-4-4
Electromagnetic emission	Conducted emissions - test level: 120...69 dBµV/m QP at 10...150 kHz conforming to EN/IEC 55011 Conducted emissions - test level: 63 dBµV/m QP at 1.5...30 MHz conforming to EN/IEC 55011 Radiated emissions - test level: 40 dBµV/m class A at 30...230 MHz conforming to EN/IEC 55011 Conducted emissions - test level: 79...63 dBµV/m QP at 150...1500 kHz conforming to EN/IEC 55011 Radiated emissions - test level: 47 dBµV/m class A at 230...1000 MHz conforming to EN/IEC 55011
Ambient air temperature for operation	-20...60 °C horizontal installation -20...50 °C vertical installation
Ambient air temperature for storage	-40...85 °C
Relative humidity	10...95 %, without condensation (in operation) 10...95 %, without condensation (in storage)
IP degree of protection	IP20 with protective cover in place
Pollution degree	2
Operating altitude	0...2000 m
Storage altitude	0...3000 m
Vibration resistance	3.5 mm at 2...8.4 Hz on DIN rail 1 gn at 8.4...200 Hz on DIN rail 3.5 mm at 2...8.4 Hz on panel 1 gn at 8.4...200 Hz on panel
Shock resistance	15 gn for 11 ms

Packing Units

Package 1 Weight	0.100 kg
Package 1 Height	0.900 dm
Package 1 width	0.846 dm
Package 1 Length	0.380 dm

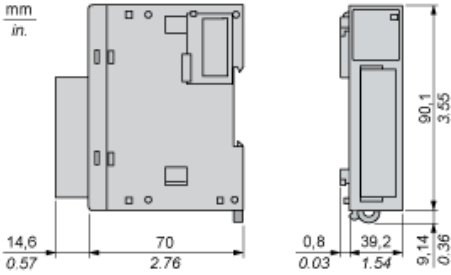
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration

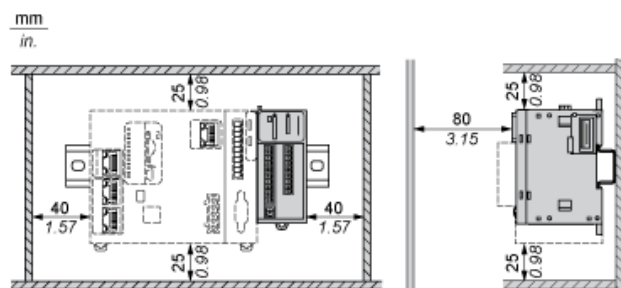
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

Dimensions

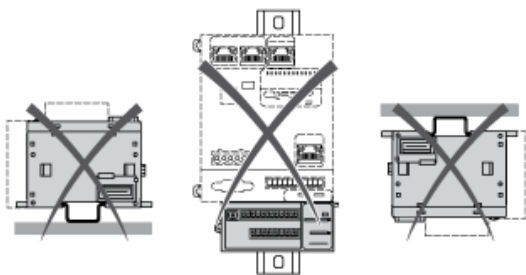
Side and Front Views



Spacing Requirements

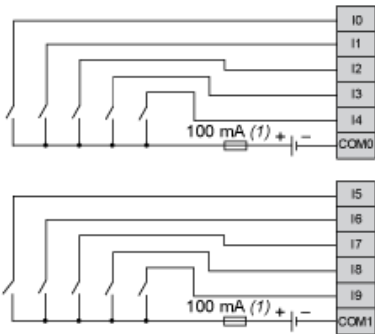


Incorrect Mounting



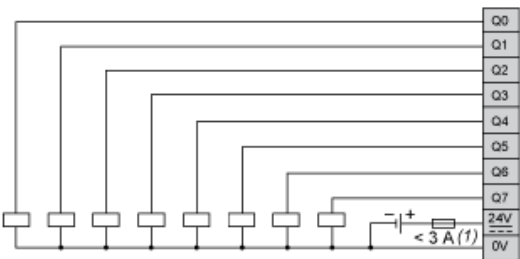
Wiring Diagram

Wiring Inputs



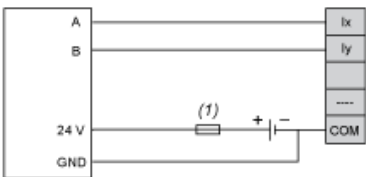
(1) : Type T fuse

Wiring Outputs



(1) : Connect an appropriate type T fuse for the load, not to exceed 3 A

Encoder Wiring



(1) : Refer to the encoder documentation for fuse sizing