



## 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 external supply - 15...20 %)
Number of input channels	10
Number of output channels	8
Discrete I/O number	18

## Complementary

Current consumption	100 mA 5 V DC 50 mA 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 transistor output
Output voltage limits	30 V DC
Discrete output current	300 mA fast output Q0...Q7)
Discrete output logic	Source
Output protection type	Against overload and short-circuits
Reset	Automatic reset
Local signalling	1 LED I/O 1 LED RUN 1 LED ERR
Mounting support	Top hat type TH35-15 rail IEC 60715 Top hat type TH35-7.5 rail IEC 60715 Plate or panel with fixing kit
Services	HSC simple One shot/Modulo HSC main single phase One shot/Modulo/Event counting HSC main dual phase Modulo/Free-large Period meter 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	No event Thresholds < 10 µs
Height	3.54 in (90 mm)
Depth	3.35 in (85 mm)
Width	1.54 in (39 mm)
Net Weight	5.29 oz (150 g)

## 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 EN/IEC 61000-4-2 4 kV on contact EN/IEC 61000-4-2
Resistance to electromagnetic fields	9.14 V/M (10 V/m) 80 MHz...1 GHz EN/IEC 61000-4-3 2.74 V/M (3 V/m) 1.4 GHz...2 GHz EN/IEC 61000-4-3 0.91 V/m (1 V/m) 2 GHz...3 GHz EN/IEC 61000-4-3
Resistance to fast transients	2 KV alimentation cable EN/IEC 61000-4-4 1 KV Ethernet line EN/IEC 61000-4-4 1 KV serial link EN/IEC 61000-4-4 1 KV input EN/IEC 61000-4-4 1 kV transistor output EN/IEC 61000-4-4
Resistance to conducted disturbances	10 V 0.15...80 MHz EN/IEC 61000-4-4
Electromagnetic emission	Conducted emissions 120...69 dB $\mu$ V/m QP10...150 kHz EN/IEC 55011 Conducted emissions 63 dB $\mu$ V/m QP1.5...30 MHz EN/IEC 55011 Radiated emissions 40 dB $\mu$ V/m class A30...230 MHz EN/IEC 55011 Conducted emissions 79...63 dB $\mu$ V/m QP150...1500 kHz EN/IEC 55011 Radiated emissions 47 dB $\mu$ V/m class A230...1000 MHz EN/IEC 55011
Ambient Air Temperature for Operation	-4...140 °F (-20...60 °C) horizontal installation -4...122 °F (-20...50 °C) vertical installation
Ambient Air Temperature for Storage	-40...185 °F (-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...6561.68 ft (0...2000 m)
Storage altitude	0.00...9842.52 ft (0...3000 m)
Vibration resistance	3.5 mm 2...8.4 Hz DIN rail 1 gn 8.4...200 Hz DIN rail 3.5 mm 2...8.4 Hz panel 1 gn 8.4...200 Hz panel
Shock resistance	15 gn 11 ms

## Ordering and shipping details

Category	22533-M2XX PLC & ACCESSORIES
Discount Schedule	MSX
GTIN	3606489604271
Nbr. of units in pkg.	1
Package weight(Lbs)	7.55 oz (214.0 g)
Returnability	No
Country of origin	ID

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.83 in (7.2 cm)
Package 1 width	4.61 in (11.7 cm)
Package 1 Length	5.00 in (12.7 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	18
Package 2 Weight	9.92 lb(US) (4.5 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

## Offer Sustainability

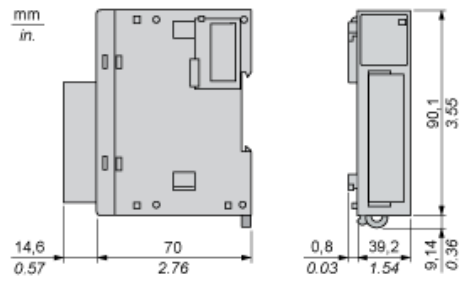
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

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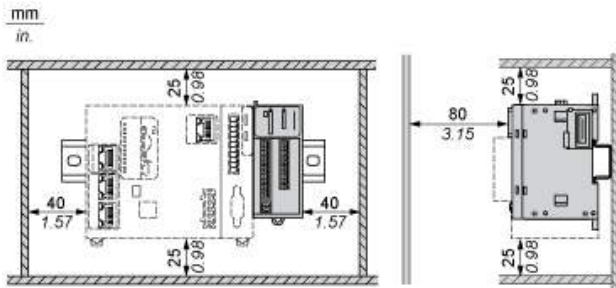
Dimensions

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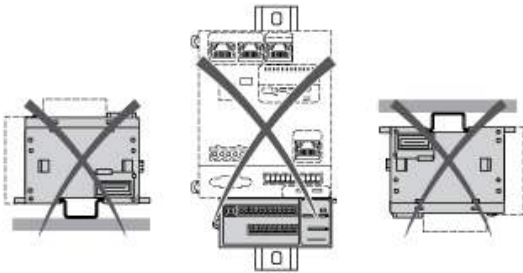
Side and Front Views



Spacing Requirements

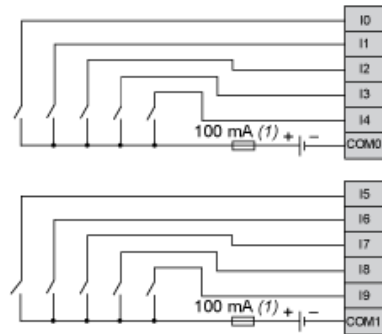


Incorrect Mounting



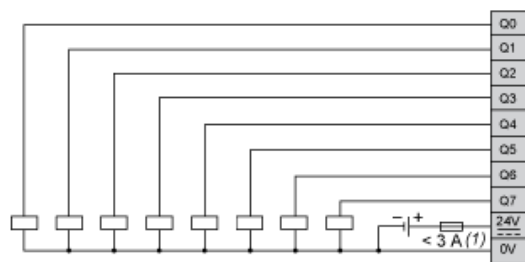
Wiring Diagram

Wiring Inputs



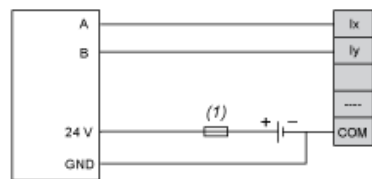
(1): Type T fuse

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