



Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 299.00 USD



Main

Range of product	Modicon M221
Product or Component Type	Logic controller
Discrete output type	Transistor

Complementary

Discrete I/O number	24
Supply voltage limits	20.4...28.8 V
Inrush current	35 A
Discrete input voltage	24 V
Discrete input voltage type	DC
Analogue input resolution	10 bits
LSB value	10 mV
Discrete output logic	Positive logic (source)
Maximum size of object areas	512 %KW constant words 255 %C counters 8000 %MW memory words 255 %TM timers 512 %M memory bits
Realtime clock	With
Function Available	PWM PLS Frequency generator
Control signal type	A/B Single phase Pulse/Direction
Marking	CE
Height	3.54 In (90 mm)
Depth	2.76 In (70 mm)
Width	4.33 In (110 mm)
Product Weight	0.87 Lb(US) (0.395 kg)

Environment

Standards	EN/IEC 61131-2 EN/IEC 60664-1 EN/IEC 61010-2-201
Product Certifications	DNV-GL LR CULus RCM EAC IACS E10 CSA ABS
Environmental characteristic	Ordinary and hazardous location
Immunity to microbreaks	10 Ms
Ambient Air Temperature for Storage	-13...158 °F (-25...70 °C)
Pollution degree	<= 2
Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0.00...9842.52 Ft (0...3000 m)

Ordering and shipping details

Category	22533 - M2XX PLC & ACCESSORIES
Discount Schedule	MSX
GTIN	3606480648724
Nbr. of units in pkg.	1
Package weight(Lbs)	21.20 Oz (601 g)
Returnability	No
Country of origin	TW

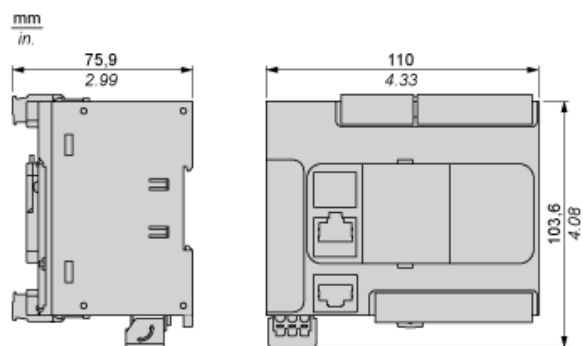
Packing Units

Unit Type of Package 1	PCE
Package 1 Height	4.34 In (11.021 cm)
Package 1 width	5.57 In (14.142 cm)
Package 1 Length	6.10 In (15.497 cm)

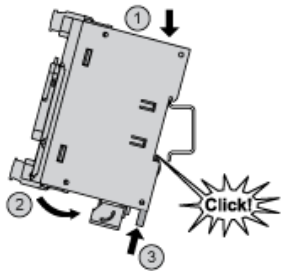
Offer Sustainability

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 www.P65Warnings.ca.gov
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

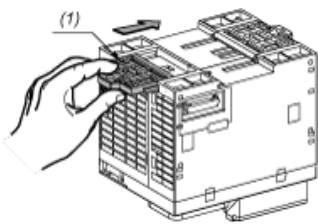
Dimensions



Mounting on a Rail

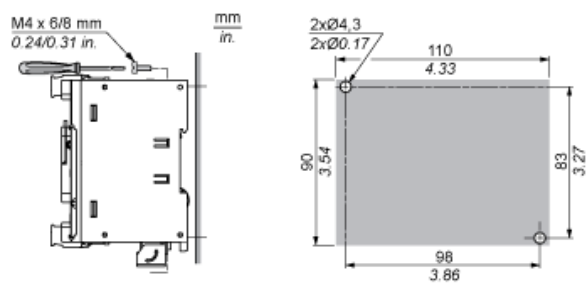


Direct Mounting on a Panel Surface



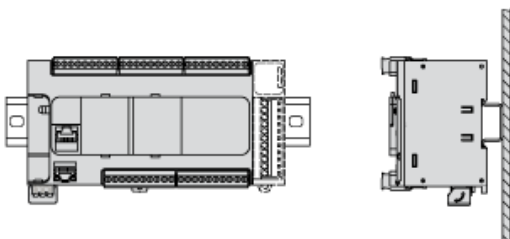
- (1) Install a mounting strip

Mounting Hole Layout

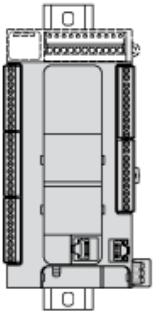


Mounting

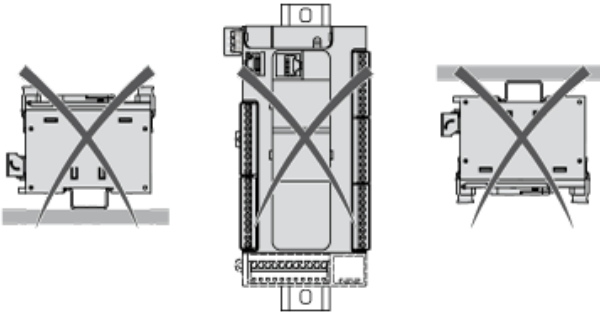
Correct Mounting Position



Acceptable Mounting Position

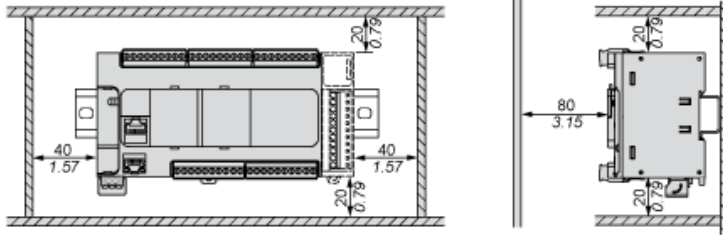


Incorrect Mounting Position

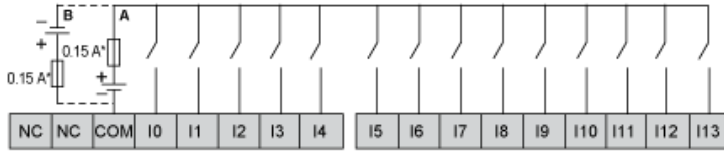


Clearance

mm
in.

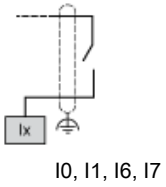


Digital Inputs

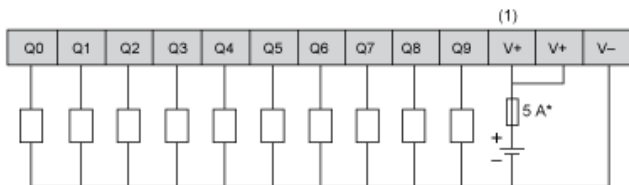


- (*) Type T fuse
- (A) Sink wiring (positive logic).
- (B) Source wiring (negative logic).

Connection of the Fast Inputs

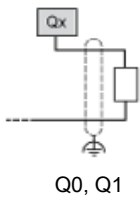


Transistor Outputs

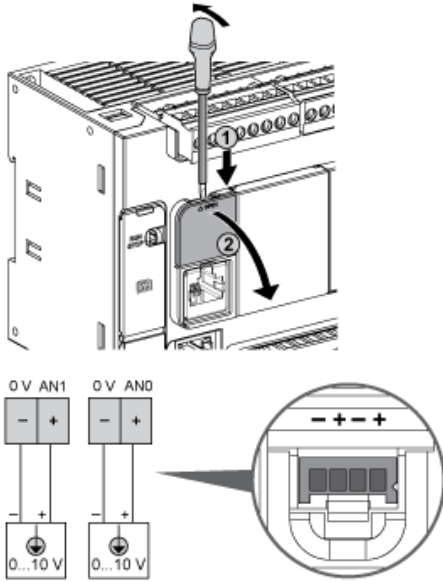


- (*) Type T fuse
- (1) The V+ terminals are connected internally.

Connection of the Fast Outputs



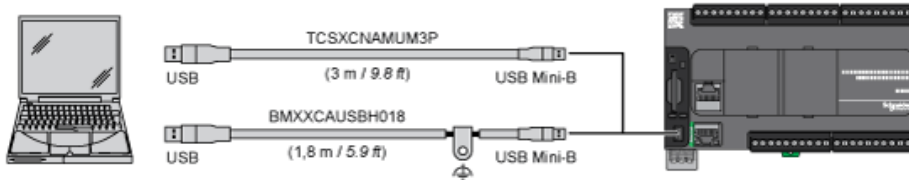
Analog Inputs



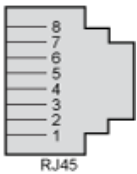
The (-) poles are connected internally.

Pin	Wire Color
0 V	Black
AN1	Red
0 V	Black
AN0	Red

USB Mini-B Connection



SL1 Connection



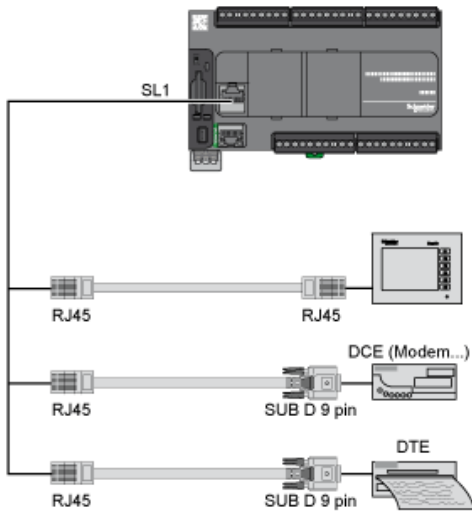
SL1

N°	RS 232	RS 485
1	RxD	N.C.
2	TxD	N.C.
3	RTS	N.C.
4	N.C.	D1
5	N.C.	D0
6	CTS	N.C.
7	N.C.*	5 Vdc

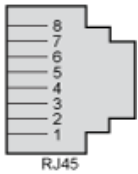
N °	RS 232	RS 485
8	Common	Common

N.C.: not connected

* : 5 Vdc delivered by the controller. Do not connect.



SL2 Connection

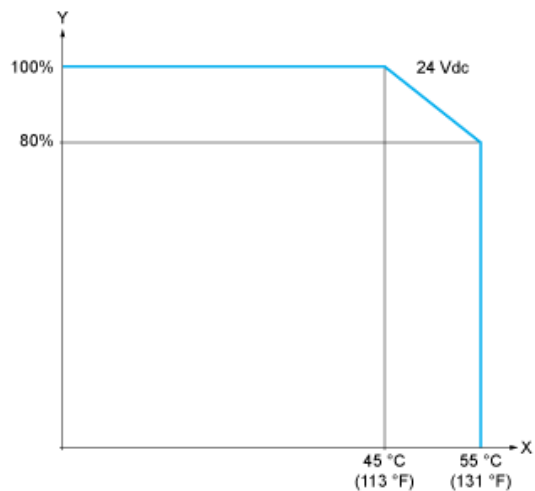


N °	RS 485
1	N.C.
2	N.C.
3	N.C.
4	D1
5	D0
6	N.C.
7	N.C.
8	Common

N.C.: not connected

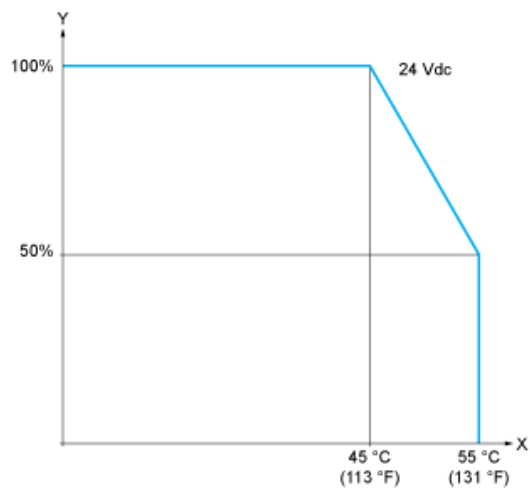
Derating Curves

Embedded Digital Inputs (No Cartridge)



X : Ambient temperature
Y : Input simultaneous ON ratio

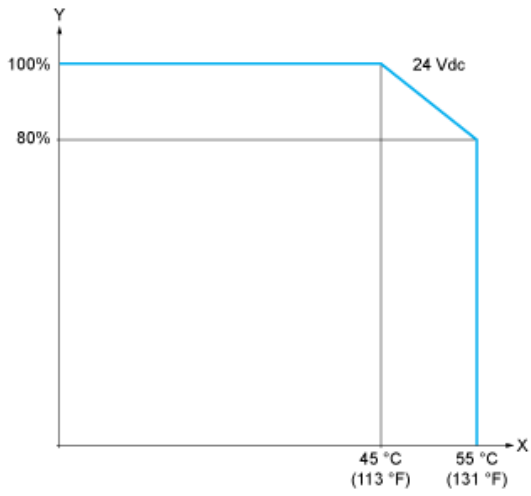
Embedded Digital Inputs (with Cartridge)



X : Ambient temperature
Y : Input simultaneous ON ratio

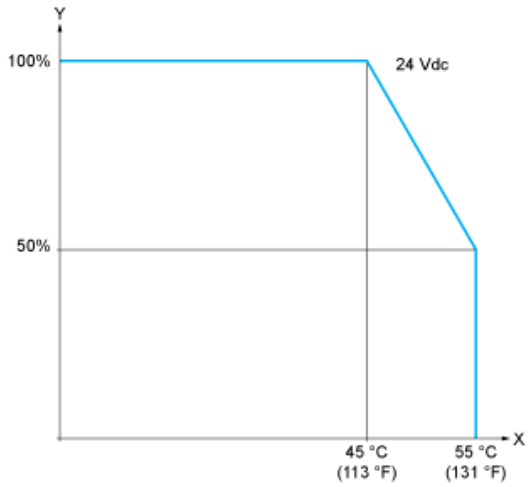
Derating Curves

Embedded Digital Outputs (No Cartridge)



X : Ambient temperature
Y : Output simultaneous ON ratio

Embedded Digital Outputs (with Cartridge)



X : Ambient temperature
Y : Output simultaneous ON ratio

Product Life Status : **Commercialised**