



Commercial status

End of Commercialisation :

⚠ End of Commercialisation

Main

Range of product	Modicon Premium Automation platform
Product or component type	Motion control module
Product specific application	For stepper motors
Software designation	Unity Pro

Complementary

I/O modularity	2 axes
Maximum pulse frequency	187 KHz
Power dissipation in W	5.6 W
Input type	Current sink auxiliary input conforming to EN/IEC 61131 type 2 Resistive amplifier input
Discrete input logic	Negative for amplifier input Positive for auxiliary input
Input voltage	24 V 7 mA auxiliary input 5 V 4.5 mA amplifier input
Input voltage limits	19...30 V auxiliary input
Voltage state 1 guaranteed	< 2 V for amplifier input ≥ 11 V for auxiliary input
Current state 1 guaranteed	≥ 6 mA (auxiliary input)
Voltage state 0 guaranteed	≤ 5 V for auxiliary input > 3.6 V for amplifier input
Current state 0 guaranteed	≤ 2 mA (auxiliary input)
Input impedance	3400 Ohm for auxiliary input
Input immunity	< 250 µs auxiliary input for homing cam and event inputs 15...30 µs amplifier input for loss of step input 3000...10000 µs auxiliary input for limit switch, emergency stop and external-stop inputs 3000...16000 µs amplifier input for amplifier fault input
Power supply monitoring	0...14 V auxiliary input at fault state 18...24 V auxiliary input at OK state
Maximum detection time	< 30 ms auxiliary input from fault to OK state > 1 ms auxiliary input from OK to fault state
Input compatibility	With 2-wire/3-wire sensor for auxiliary input
Output type	Open collector PNP brake output conforming to EN/IEC 61131-2 RS422, TTL 5 V open collector NPN compatible amplifier output
Output differential voltage	+/- 2 V ≤ 100 Ohm amplifier output
Maximum output short-circuit current	150 MA for amplifier output
Permissible common mode voltage	7 V amplifier output
Maximum permissible differential voltage	12 V amplifier output

Output voltage	24 V DC 19...30 V brake output
Nominal output current	0.5 A <0.3 mA 0.625 A brake output
Maximum voltage drop	<1 V at state on for brake output
Switching time	< 0.25 ms for brake output
Output compatibility	Positive logic DC inputs (resistance ≤ 15 kOhm) for brake output
Short-circuit protection	Thermal tripping via program or automatically brake output
Output overload protection	Current limiter brake output
Output overvoltage protection	Zener diode brake output
Reverse polarity protection	Brake output: reverse mounted diode on supply
Speed profile path	Trapezoidal
Operating mode	Manually AUTO OFF Direct drive mode
Checks	Sensor power supply Consistency of commands Validity of parameters Short circuit (one signalling bit per channel) Correct execution by software position limits, loss of step Amplifier, limits switches, emergency stop
Optional commands	Brake Boost
Local signalling	1 LED (green)module operating (RUN): 1 LED (red)external fault (I/O): 1 LED (red)internal fault, module failure (ERR): 2 LEDs (green)axis diagnostics available (CH.):
Electrical connection	1 connector HE-10, 20 pins 2 connectors SUB-D 15
Current consumption	100 mA at 24 V DC 650 mA at 5 V DC
Module format	Standard
Net weight	0.48 Kg

Environment

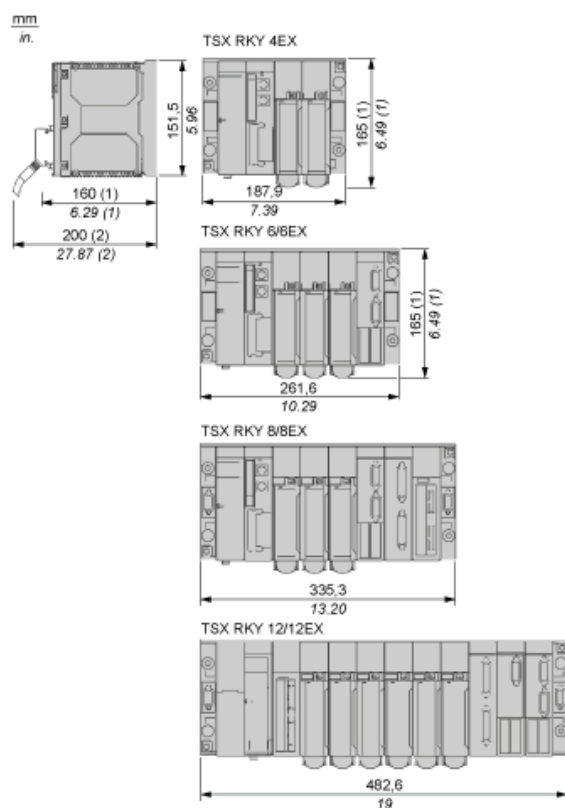
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-25...70 °C
Relative humidity	5...95 % without condensation
Operating altitude	≤ 2000 m

Contractual warranty

Warranty	18 months
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Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

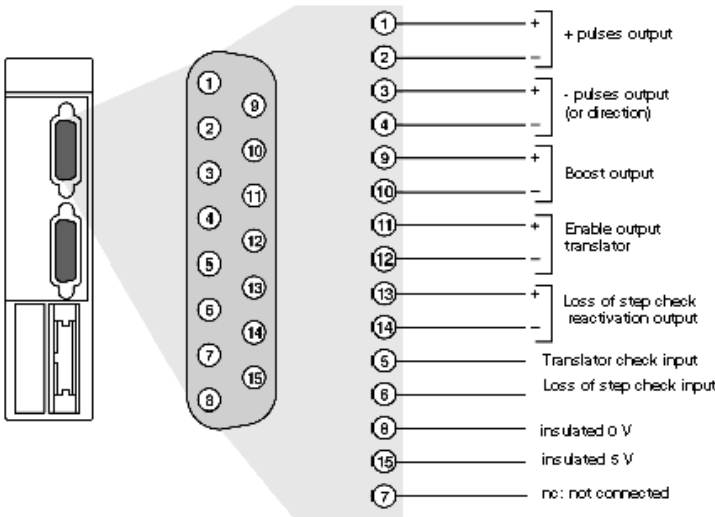


(1) With screw terminal block modules.

(2) Maximum depth for all types of modules and their associated connectors.

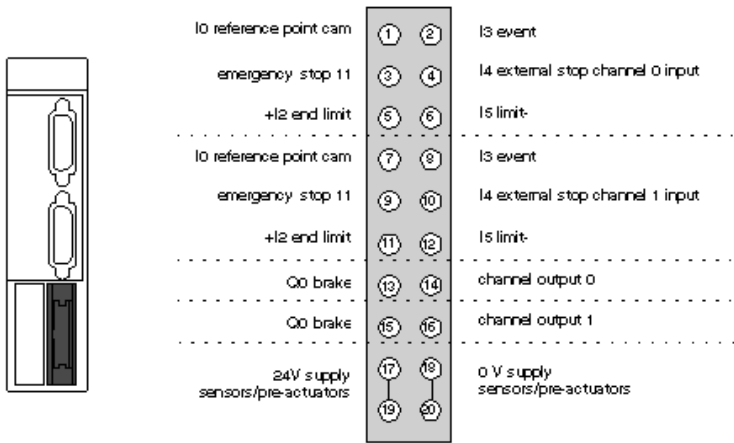
Connection of Translator Signals

Connector Pinout



Connection of Sensors/Pre-Actuators

Connector Pinout



Product Life Status : **Post commercialisation**

TSXCFY21 may be replaced by any of the following products:



BMXMSP0200
PTO module - 2 channels - 4 input - 24 V DC - 4.3 mA - 2 connectors 28 pins
Qty 1
Reason for Substitution: End of life | Substitution date: 10 Apr 2017 |



BMXMSP0200
PTO module - 2 channels - 4 input - 24 V DC - 4.3 mA - 2 connectors 28 pins
Qty 1
Reason for Substitution: End of life | Substitution date: 30 Jun 2018 |



BMXMSP0200

PTO module - 2 channels - 4 input - 24 V DC - 4.3 mA - 2 connectors 28 pins

Qty 1

Reason for Substitution: End of life | Substitution date: 31 Dec 2018 | Not same dimensions/design



BMXMSP0200

PTO module - 2 channels - 4 input - 24 V DC - 4.3 mA - 2 connectors 28 pins

Qty 1

Reason for Substitution: End of life | Substitution date: 31 Dec 2018 | Not same dimensions/design
