

TSXCFY21

motion control module - for stepper motors - Unity Pro - 2 axes - 5.6 W

Product availability : Stock - Normally stocked in distribution facility

Price* : 2546.10 USD



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
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 amplifier input Positive 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 amplifier input ≥ 11 V auxiliary input
Current state 1 guaranteed	≥ 6 mA auxiliary input
Voltage state 0 guaranteed	≤ 5 V auxiliary input > 3.6 V amplifier input
Current state 0 guaranteed	≤ 2 mA auxiliary input
Input impedance	3400 Ohm auxiliary input
Input immunity	< 250 μ s auxiliary input for homing cam and event inputs 15...30 μ s amplifier input for loss of step input 3000...10000 μ s auxiliary input for limit switch, emergency stop and external stop inputs 3000...16000 μ s 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 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
Output short-circuit current	< 150 mA amplifier output
Permissible common mode voltage	<= 7 V amplifier output
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
Voltage drop	< 1 V at state on brake output
Switching time	< 0.25 ms brake output
Output compatibility	Positive logic DC inputs (resistance <= 15 kOhm) 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	Reverse mounted diode on supply brake output
Speed profile path	Trapezoidal
Operating mode	Direct drive mode OFF AUTO Manually
Checks	Short circuit (one signalling bit per channel) Correct execution by software position limits, loss of step Consistency of commands Sensor power supply Amplifier, limits switches, emergency stop Validity of parameters
Optional commands	Boost Brake
Local signalling	2 LEDs green axis diagnostics available (CH.) 1 LED green module operating (RUN) 1 LED red external fault (I/O) 1 LED red internal fault, module failure (ERR)
Electrical connection	1 connector HE-10 20 pins 2 connectors SUB-D 15
Current consumption	100 mA 24 V DC 650 mA 5 V DC
Module format	Standard
Product weight	1.06 lb(US) (0.48 kg)

Environment

Ambient air temperature for operation	32...140 °F (0...60 °C)
Ambient air temperature for storage	-13...158 °F (-25...70 °C)
Relative humidity	5...95 % without condensation
Operating altitude	<= 6561.68 ft (2000 m)

Ordering and shipping details

Category	22558 - TSX PREMIUM, ATRIUM & PL7 PRO
Discount Schedule	PC22
GTIN	00785901757009
Nbr. of units in pkg.	1
Package weight(Lbs)	2.21
Returnability	N
Country of origin	FR

Offer Sustainability

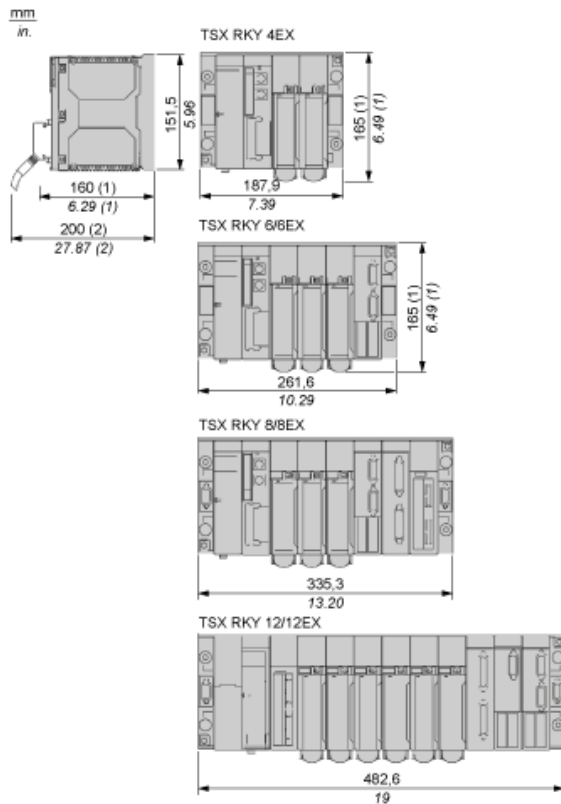
Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0828 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Warranty period	18 months
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Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

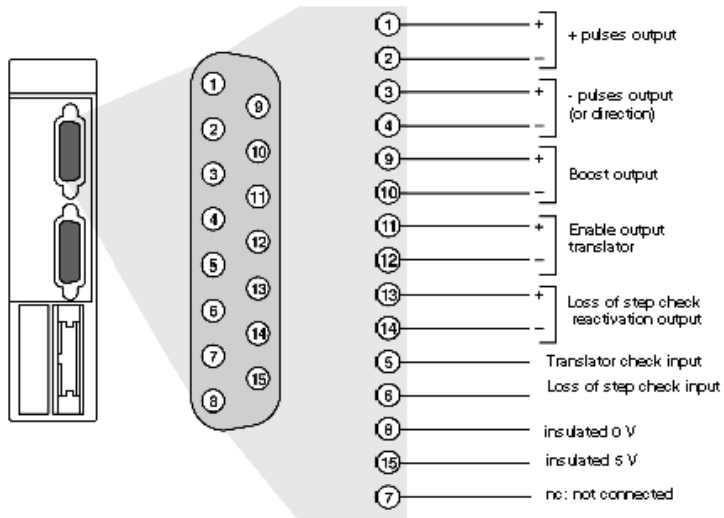


(1) With screw terminal block modules.

(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

