

TSXCFY21C

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

Product availability : Stock - Normally stocked in distribution facility

Price* : 2803.70 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 AUTO OFF Manually |
| Checks | Amplifier, limits switches, emergency stop Sensor power supply Correct execution by software position limits, loss of step Consistency of commands Validity of parameters Short circuit (one signalling bit per channel) |
| Optional commands | Brake Boost |
| 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) |
| Protective treatment | Conformal coating Humiseal 1A33 |

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 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 2.2000000000000002 |
| Returnability | N |
| Country of origin | FR |

Offer Sustainability

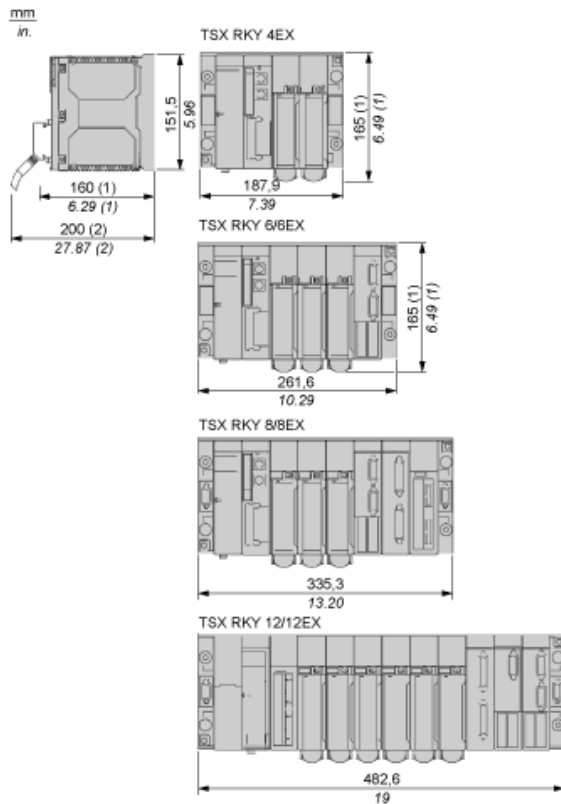
| | |
|--------------------------|---|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0828 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Standard and Extendable Racks for Modules Mounting

Dimensions of Modules and Racks

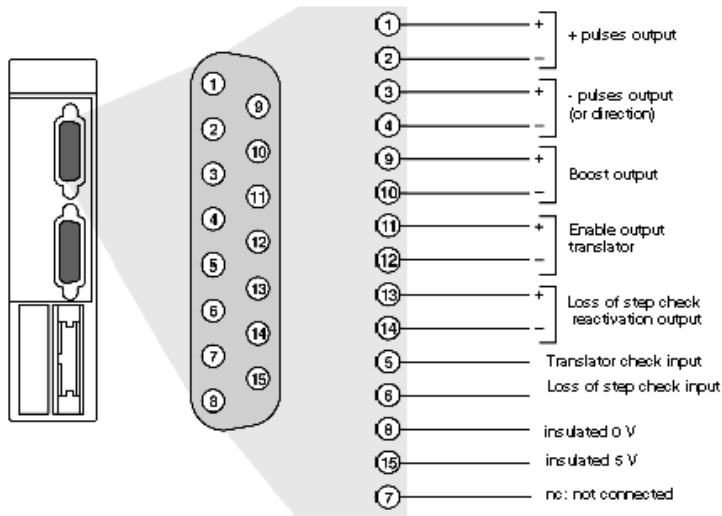


(1) With screw terminal block modules.

(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

