

# TSXCTY2A

2 channels counter modules - 40 kHz - 30 mA at 24 V DC, 280 mA at 5 V DC



## Main

Range of product	Modicon Premium Automation platform
Product or component type	Counter modules
I/O modularity	2 channels
Electrical circuit type	Auxiliary output conforming to EN/IEC 61131

## Complementary

Counting frequency	40 kHz
Power dissipation in W	4.5...6 W
Cycle time	5 ms
Discrete input logic	Current sink auxiliary input (preset, enable and read) conforming to IEC 1131 Type 2 Resistive 2/3-wire proximity sensors PNP/NPN input conforming to IEC 1131 Type 2 Resistive encoder input
Input logic	Positive
Input compatibility	2/3-wire proximity sensors PNP/NPN Incremental encoder 10...30 V totem pole Incremental encoder 5 V DC RS422
Input voltage	24 V 18 mA 2/3-wire proximity sensors PNP/NPN 24 V 7 mA auxiliary input (preset, enable and read) 5 V 18 mA encoder input
Input voltage limits	<= 5.5 V encoder input 19...30 V 2/3-wire proximity sensors PNP/NPN 19...30 V auxiliary input (preset, enable and read)
Voltage state 1 guaranteed	>= 11 V 2/3-wire proximity sensors PNP/NPN >= 11 V auxiliary input (preset, enable and read) >= 2.4 V encoder input
Current state 1 guaranteed	>= 3.7 mA encoder input >= 6 mA 2/3-wire proximity sensors PNP/NPN >= 6 mA auxiliary input (preset, enable and read)
Voltage state 0 guaranteed	<= 1.2 V encoder input <= 5 V 2/3-wire proximity sensors PNP/NPN <= 5 V auxiliary input (preset, enable and read)
Current state 0 guaranteed	<= 1 mA encoder input <= 2 mA 2/3-wire proximity sensors PNP/NPN <= 2 mA auxiliary input (preset, enable and read)
Response time	< 2.5 ms sensor voltage at loss of 24 V auxiliary input (preset, enable and read)
Input impedance	> 270 Ohm at U = 2.4 V encoder input

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

1400 Ohm at Un 2/3-wire proximity sensors PNP/NPN  
 3400 Ohm at Un auxiliary input (preset, enable and read)  
 400 Ohm at Un encoder input

Output voltage	24 V DC
Nominal output current	0.5 A
Output voltage limits	19...30 V
Voltage drop	< 0.5 V at state 1
Output compatibility	Positive logic DC inputs (resistance <= 15 kOhm) auxiliary output
Leakage current	< 0.1 mA
Switching frequency	< 0.6/LI <sup>2</sup> Hz on inductive load
Output overload protection	Current limiter Thermal tripping via program or automatically
Output short-circuit protection	Current limiter Thermal tripping via program or automatically
Output overvoltage protection	Zener diode
Reverse polarity protection	Reverse diode on supply
Checks	Sensor power supply
Current consumption	280 mA 5 V DC 30 mA 24 V DC
Module format	Standard
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
Product weight	0.32 kg

## Environment

Protective treatment	TC
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

## Offer Sustainability

RoHS (date code: YYWW)	Compliant <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product end of life instructions	Need no specific recycling operations

## Contractual warranty

Warranty period	18 months
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TSXCTY2A is replaced by:



Standard environment BMXEHC0200

high speed counter module M340 - 2 channels

Qty 1

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