Product data sheet
Characteristics

TSXCTY4A
Counter modules, Modicon Premium, 4 channels modularity, current limiter protection, 8 to 11.5W, 40kHz

Commercial status
End of commercialisation : JAN 23, 2021

⚠ End of commercialisation

Main

Range of product	Modicon Premium Automation platform
Product or component type	Counter modules
I/O modularity	4 channels
Electrical circuit type	Auxiliary output conforming to EN/IEC 61131

Complementary

Counting frequency	40 KHz
Power dissipation in W	8…11.5 W
Cycle time	10 Ms
Discrete input logic	Current sink for auxiliary input (preset, enable and read) conforming- to IEC 1131 Type 2 Resistive for 2/3-wire proximity sensors PNP/NPN conforming- to IEC 1131 Type 2 Resistive for encoder input
Input logic	Positive
Input compatibility	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 for 2/3-wire proximity sensors PNP/NPN >= 11 V for auxiliary input (preset, enable and read) >= 2.4 V for 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 for encoder input <= 5 V for 2/3-wire proximity sensors PNP/NPN <= 5 V for 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	Encoder input: > 270 Ohm at U = 2.4 V 2/3-wire proximity sensors PNP/NPN: 1400 Ohm at Un Auxiliary input (preset, enable and read): 3400 Ohm at Un Encoder input: 400 Ohm at Un
Output voltage	24 V DC
Nominal output current	0.5 A
Output voltage limits	19...30 V
Maximum voltage drop	<0.5 V at state 1
Output compatibility	Positive logic DC inputs (resistance <= 15 kOhm) for auxiliary output
Maximum leakage current	0.1 MA
Switching frequency	< 0.6/LI² Hz on inductive load load
Output overload protection	Thermal tripping via program or automatically Current limiter
Output short-circuit protection	Thermal tripping via program or automatically Current limiter
Output overvoltage protection	Zener diode

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Reverse polarity protection	Reverse diode on supply
Checks	Sensor power supply
Current consumption	330 µA at 5 V DC 36 mA at 24 V DC
Module format	Standard
Local signalling	1 LED (green) for module operating (RUN) 1 LED (red) for external fault (I/O) 1 LED (red) for internal fault, module failure (ERR) 4 LEDs (green) for axis diagnostics available (CH.)
Electrical connection	2 connectors HE-10, 20 pins 4 connectors SUB-D 15
Net weight	0.43 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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.0 Cm
Package 1 Width	18.0 Cm
Package 1 Length	26.0 Cm
Package 1 Weight	570.0 G
Unit Type of Package 2	S04
Number of Units in Package 2	12
Package 2 Height	30.0 Cm
Package 2 Width	40.0 Cm
Package 2 Length	60.0 Cm
Package 2 Weight	7.5 Kg

Contractual warranty

Warranty	12 months

Product Life Status : Post commercialisation

TSXCTY4A may be replaced by any of the following products:



BMXEHC0200

counter module, Modicon M340, high speed, 2 channels

Qty 1

Substitution date: |