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Find the *Schneider Electric / AEG / Modicon TSX CTY 4A* at our website: *Click HERE*

Product data sheet
Characteristics

TSXCTY4A
4 channels counter modules - 40 kHz - 36 mA at 24 V DC, 330 mA at 5 V DC

Main

Range of product	Modicon Premium Automation platform
Product or component type	Counter modules
I/O modularity	4 channels
Counting frequency	40 kHz
Input compatibility	Incremental encoder 5 V DC RS422 Incremental encoder 10...30 V totem pole
Electrical circuit type	Auxiliary output EN/IEC 61131

Complementary

Power dissipation in W	8...11.5 W
Module cycle time	10
Discrete input logic	Current sink auxiliary input (preset, enable and read) IEC 1131 Type 2 Resistive encoder input Resistive 2/3-wire proximity sensors PNP/NPN IEC 1131 Type 2
Input logic	Positive
Input voltage	5 V 18 mA encoder input 24 V 18 mA 2/3-wire proximity sensors PNP/NPN 24 V 7 mA auxiliary input (preset, enable and read)
Input voltage limits	19...30 V 2/3-wire proximity sensors PNP/NPN 19...30 V auxiliary input (preset, enable and read) <= 5.5 V encoder input
Voltage state1 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 auxiliary input (preset, enable and read) ≤ 5 V 2/3-wire proximity sensors PNP/NPN
Current state 0 guaranteed	< 1 mA encoder input < 2 mA auxiliary input (preset, enable and read) < 2 mA 2/3-wire proximity sensors PNP/NPN
Response time	< 2.5 ms sensor voltage at loss of 24 V auxiliary input (preset, enable and read)
Input impedance	400 Ohm at Un encoder input 1400 Ohm at Un 2/3-wire proximity sensors PNP/NPN 3400 Ohm at Un auxiliary input (preset, enable and read) > 270 Ohm at U = 2.4 V 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 time	< 250 µs
Switching frequency	< 0.6/LI² Hz on inductive load
Output overload protection	Current limiter Thermal tripping via program (888)38-STOCK
Output short circuit protection	Current limiter

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Output overvoltage protection	Zener diode
Reverse polarity protection	Reverse diode on supply
Checks	Sensor power supply
Current consumption	36 mA 24 V DC 330 mA 5 V DC
Module format	Standard
Local signalling	1 LED green module operating (RUN) 1 LED red internal fault, module failure (ERR) 1 LED red external fault (I/O) 4 LED green axis diagnostics available (CH.)
Electrical connection	2 connectors HE-10 20 pins 4 connectors SUB-D 15
Product 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
RoHS EUR conformity date	0849
RoHS EUR status	Compliant

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