

Rock Steady Tension Controller RSTC1000

Nexen's RSTC1000 Tension Controller is a closed loop, load cell based tension control product which uses torque to control the tension of paper, film, foil, or fabric in all zones of web processing machines.

The RSTC1000 uses an adaptive control algorithm to adjust internal gain values, resulting in a simple system with the inherent robustness of more complicated systems that rely on many external sensors and signals.

The RSTC1000 can be DIN rack mounted or panel mounted inside a machine control cabinet alongside other controllers. Using Modbus RTU communication protocol, the RSTC1000 can communicate with HMIs and PLCs. For machines without HMI, the RSTC Operator Panel (ROP) is available and can be installed in a convenient location for the operator.

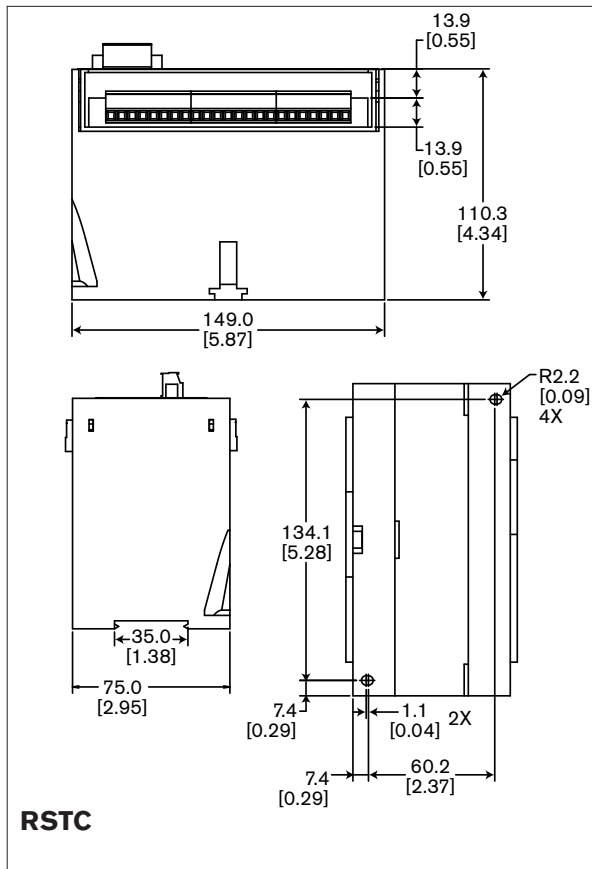
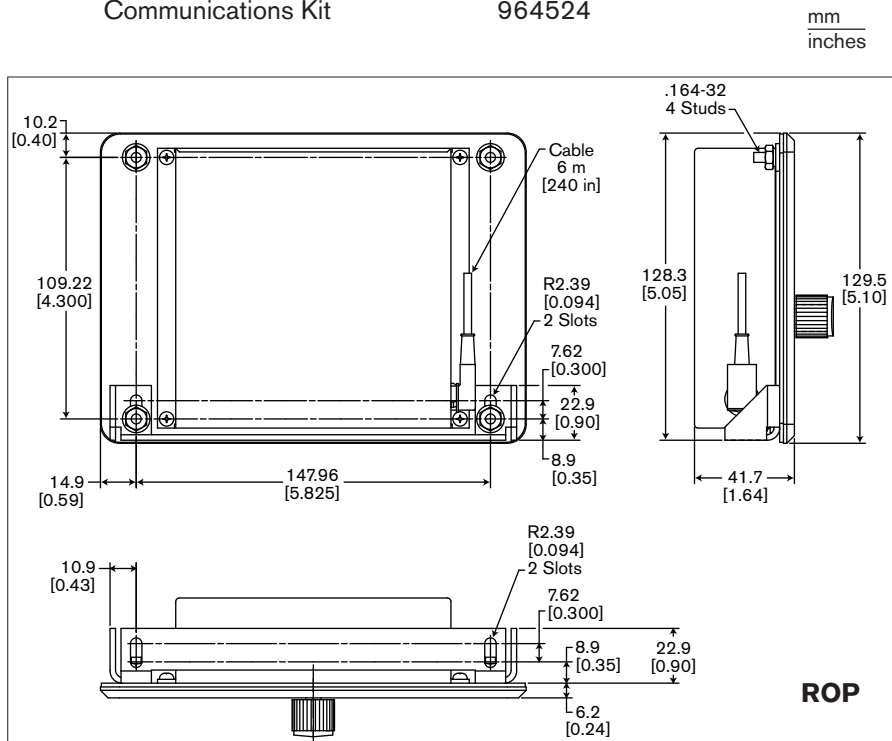


- Tune once, then forget
- Smart Splicing – splice different size rolls without adjustment
- RSTC1000 controls the torque output of brakes, clutches, and AC/DC drives
- Controller setup and tuning are performed at initial startup from a customer's laptop PC or HMI
- RSTC utilizes an adaptive control algorithm
- The ROP adjusts job parameters only, so operators cannot modify controller setup or tuning parameters
- The ROP has a text display with no menus, therefore, operators do not have to navigate menu structures or decode cryptic messages
- Each control on the ROP has only one function, simplifying operator training and use
- ROP supports easy storage and retrieval of parameters for frequently run jobs
- Power supply, +24 VDC
- ROP can be mounted anywhere on the machine
- RSTC1000 and ROP are CE compliant

RSTC1000 and ROP, Approximate Dimensions

Product Part Numbers

RSTC1000	964523
RSTC Operator Panel (ROP)	964537
Communications Kit	964524



RSTC1000 SPECIFICATIONS

POWER	
Input	24 VDC at 500 mA
TEMPERATURE	
RSTC1000 Operating Temperature	0°-60° C (32°-140° F)
ROP Operating Temperature	0°-45° C (32°-113° F)
DIGITAL SIGNALS	
Alarm Outputs	5-24 VDC, 140 mA max, current sinking
Control Outputs	12-24 VDC, 20mA max
ANALOG SIGNALS	
Diameter Sensor Input	0-12 VDC max
Load Cell Inputs	2 channels, 0-1 VDC
Control Output 1	0-10 VDC, 4-20 mA
Control Output 2	0-10 VDC, 4-20 mA
SENSOR EXCITATION	
Load Cell Excitation	6 VDC
Diameter Sensor Excitation	12 VDC & 24 VDC @ 100 mA max
MODBUS RTU COMMUNICATIONS	
Network Address Range	1-247
Baud Rates	4800, 9600, 14400, 19200, 38400, or 56000
Parity	none, odd, even
Stop Bits	1 (odd or even parity), 2 (no parity)



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