Adept SmartMotion CS Controller Bundle

The Adept SmartMotion™ CS Controller (p/n 01058-001) is a high-performance motion controller that leverages the Adept SmartServo™ system, Adept's distributed controls platform built on IEEE 1394. This bundle includes the SmartController™ CS and the sMI6 motion option.

This system also provides fully-integrated motion control capabilities for industrial robots, third-party mechanisms, feeders, servo-controlled conveyors, or other servo and process-control axes.

Adept's advanced motion technology was designed directly for the real-time control of high-speed robotic workcells. A variety of kinematic modules are available that allow simple programming of complex mechanisms, including tool offsets and world coordinates. Multiple mechanisms can be coordinated from one controller.

Complete Automation Control Platform
While most motion controllers stop with basic commands, Adept recognizes that real-world automation systems require coordination of motion control with real-time sensory feedback, workcell logic, I/O, and operator control functions.

Powerful Software for Productivity
With over 30,000 installations world-wide, the Adept V+ programming language is a proven solution for real-time control of factory devices. Powerful diagnostic tools provide real-time information about hardware status and encoder signals. Servo tuning aids include built-in motion profile generation and on-line graphical display of servo response.

Included Hardware
  SmartController CS
  sMI6, 6-axis motion control interface
  Front Panel
  Panel Mount Hardware Kit

Included Software
  Adept V+, version 16.0 (or later)
  AdeptWindows PC
  AdeptTCP/IP License
  AdeptNFS Client License

Controller Specifications
  Dimensions: 328mm x 187mm x 80mm
  Operating power: 24 VDC ±10%, 5A
  Environment:
    - Temp: 5° C to 40° C
    - Humidity: 5 to 90%, non-condensing

Controller Specifications (continued)
  Memory:
    - 30 MB CompactFlash card
    - 32 MB RAM
  Digital I/O:
    - 12 optically isolated inputs
    - 8 optically isolated outputs
  Communication Interfaces:
    - RS-232 serial port (1x)
    - RS-422/485 serial port (1x)
    - 10/100Base-T Ethernet
    - DeviceNet
    - SmartServo network port (2x)
  Motion Control
    - 24 axes maximum
    - 15 mechanisms maximum
      (with V+ Extensions option)
  Kinematic modules
    - Coordinate axes and
    - Support sophisticated vision routines
      (AdeptVision sAVI requires the Adept
      SmartController CX system.)
  Compliance: CE
  For complete details see the Adept SmartController CS data sheet.

sMI6 Specifications
  • sMI6, 6-axis motion control interface
  • ±10 volt command signal
  • Digital loop control
  For complete details see the Adept sMI6 data sheet.

Options
  • Adept sDIO
  • Adept AIM Software
  • Manual Control Pendant
  • MP6 interface kit, with 2.5M cables
  • Extended MP6 Cable Set, 5M