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Find the *OMRON / Adept Technology sMI6* at our website: ***Click HERE***

Adept *s*MI6 Option

The Adept *s*MI6 motion control option (p/n 01838-000) provides an integrated automation control platform designed to improve the performance of automation systems. Our motion control system combines advanced motion controls with a graphical user interface and integrated support for machine vision and conveyor tracking. The *s*MI6 option connects to the Adept SmartController™ system via the Adept SmartServo™, network, Adept's distributed controls platform built on IEEE 1394.

State-of-the-Art Motion Technology
Our advanced motion technology was designed directly from the real-time control of high-speed robotic workcells. The Adept SmartMotion system provides the following capabilities:

- 24 axes of motion, 15 independent mechanisms
- Standard and custom kinematic modules
- Coordinated and straight-line motions
- Control in World and Tool coordinates
- Manual jog modes
- Velocity and acceleration feed-forward terms
- Programmable acceleration and deceleration profiles (S-curve or trapezoidal)

HARDWARE
Controller
The *s*MI6 option is compatible with any Adept SmartController system including:
SmartMotion CS Controller Bundle (01058-001)
SmartMotion CX Controller Bundle (01058-002)
See individual data sheets for more details.

***s*MI6 Option (01838-000)**
Amplifier & encoder channels per unit: 6
*s*MI6 units per system (max): 4
Axes per system (max): 24

Amplifier Drive Signals
Command ±10 VDC analog
Resolution 16-bit, instrument grade, high linearity

Axis Interface Signals
Dedicated interface signals for each axis, optically isolated (5 per axis plus 1 per *s*MI6)

System Interface Signals
High-power enable - N/O output
External Emergency-Stop input
High-speed position-latch input

Encoder Channels
Type: A/B quadrature encoder, incremental, index optional
Voltage: 5VDC RS-422 line drive
Frequency: 32 MHz edge rate max

Configuration
Maximum of 24 total axes per system



HARDWARE (continued)
Optional MP6 Interface Kit (01840-000)
Set of 3 field-wiring motion-interconnect panels, DIN-rail mountable, with 2.5M interface cables
(1 set per *s*MI6)

SOFTWARE
Language & Operating System
Adept V+, version 16.0 or later
Multitasking O.S. with configurable priority
Straight-line motion interpolation
World and Tool coordinates
Transformations (6 degrees of freedom)

Kinematics
Mechanism specifications and diagnostic software
X/Y/Z/theta kinematic device module
6-Axis Joints device module
Over 25 optional kinematics modules

Optional Kinematic Features
SCARA, 6-axis articulated, Palletizer, Parallelogram, Cylindrical
Backlash compensation
Linear compensation
Perpendicular compensation
Split-axis (dual motor capability)

V+ Extensions Option
Multiple mechanism support (15 maximum)
Conveyor Belt Tracking
28 V+ user tasks
ALTER support

PERFORMANCE
Servo Loop
All digital control
Closure Rate: 8KHz
PID (Proportional Integral Differential) with FeedForward
Velocity and acceleration feed-forward
Velocity or torque drive compatible

Mechanism Parameters
User-defined axis limits, encoder resolution, duty-cycle limits, envelope limits.
User-defined acceleration profiles allow S-curve or trapezoidal velocity profiles.

Specifications subject to change without notice. 07/10/2003

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