SERVO INTERFACE

Application Brief

Emerging Technologies, LLC. was called upon to develop a Servo Interface for a new customer in the area.

The machine has three servo motors and one set of I/O that controls the process. Each of the servo motors interact with the others so wiring between all was cluttered and a bit complicated. After a meeting with the customer, it was decided a printed circuit board (PCB) would eliminate much of the clutter by using four DB-15 connectors that plug directly into the PCB.

With a wiring schematic between the servos and I/O provided by the customer, Emerging Technologies developed a PCB drawing, procured the PCB's, and populated the PCB's with DB-15 connectors, spring terminals, and two din rail feet for easy mounting on standard din rail. Additional solder pads were also provided on each PCB for future modification potential.

Once each PCB was created and bench tested, Emerging Technologies went onsite with the customer for the initial installation and testing to make sure the customer was satisfied with the product.

Customer Benefit:
The customer saves time and material on each Servo machine by eliminating the need for costly wiring and testing between each servo. Wiring now takes minutes instead of hours for each Servo machine needed. Simply mounting the PCB on standard din rail, plugging each servo into their respective connector, and supplying 24 VDC power is all that is needed for installation.
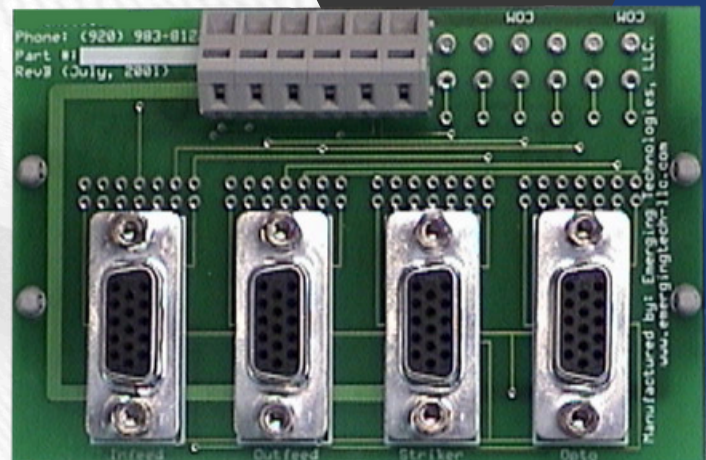
ET RESPONSIBILITIES:

✓ Functional Specification Generation
✓ Design/Engineering
✓ Fabrication
 Programming - Software
 Programming - Firmware
✓ Field Installation
✓ On-Site Commissioning
✓ Post Commissioning Support

TECHNOLOGIES:

Embedded Computers
Microcontrollers
Visual Software
Control Software
Data Acquisition
Computer Based Control
✓ Communications
System Integration

SPECIAL FEATURES:

✓ OEM
 Industrial Manufacturer
 Custom Equipment
 Utility
 R&D