

# PLC-Based Automation Products

## Specialty I/O



## Position Sensing



## Motion Control



## ► PLC-Based by Design

### Programming

Programming is performed by the same software used to configure your host PLC/PAC, eliminating the need to learn new software and/or language foreign to your controls environment. The results are seamless integration, intuitive troubleshooting, and valuable time savings.

- Use your PLCs native software
- No new software to buy or learn
- Tightest integration available



### Engineering

PLC-based products require a unique approach to engineering, and AMCI has been building expertise in this area for 30+ years. Our electrical and mechanical engineering staff have developed sophisticated controls for the world's top PLC/PAC controllers, including plug-in module products and networked solutions. Our wholly owned & operated production facilities ensure that AMCI's innovative product designs are recognized for their reliability.

Our design philosophy is simple – customer experience is priority #1. Our PLC-based automation products improve the manufacturing process by simplifying integration, increasing machine performance, and cutting costs, all through smarter engineering.

*Our experienced sales department assists customers in identifying the AMCI control products best suited to their application.*



## ► Quality & Convenience

### Cables & Cordsets



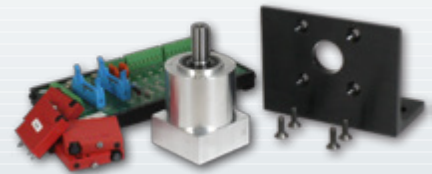
AMCI takes the guesswork out of buying cables & cordsets for your position sensing or motion control system. AMCI's Cat 5 cordsets and shielded cables provide reliable, high performance connectivity to our controllers, interfaces, and sensors.

### Connectors



AMCI offers high quality mating connectors that simplify your job. We understand that simple issues, like lost or misplaced mating connectors, can undermine the best laid plans. That's why we provide everything needed to reliably install our products.

### Accessories
















Complete or enhance your AMCI controls system with our line of accessories. Our catalog includes relay boards, gearheads, sensor mounts, and other products that streamline installation and improve performance.



















# Position Sensing



## Rotary Encoders


Networked	SSI	Analog	Incremental	Digital
<b>NR25</b> IP67 Rated Up to 30 bits 	<b>DC25</b> IP67 Rated Up to 24 bits 	<b>DC25</b> IP67 Rated Up to 12 bits 	<b>DC25</b> IP67 Rated Up to 4096 cycles/turn 	<b>DC25</b> IP67 Rated Up to 12 bits 
<b>NR60</b> IP67 Rated Up to 30 bits 	<b>ME15</b> IP67 Rated Up to 10 bits 	<b>DC60</b> IP67 Rated Up to 16 bits 	Long lasting, reliable performance. Supports shaft loads up to 100 lbs. radial / 50 lbs. axial. All DC25 and NR25 models are available in stainless steel for additional protection.	
EtherNet/IP  Modbus  DeviceNet 	<b>DC425</b> IP67 Rated Up to 16 bits 			
	<b>ME15</b> IP67 Rated Up to 10 bits 			

## Resolver Transducers

Single-Turn	Multi-Turn	Redundant	Stainless Steel	Networked
<b>HT-20</b> IP67 Rated 	<b>HT-20-X</b> IP64 Rated 	<b>HTT-20-1</b> IP64 Rated 	<b>H25</b> IP67 Rated 	<b>NR25</b> IP67 Rated 
<b>H25</b> IP67 Rated 	<b>HTT-20-X</b> IP64 Rated 	<b>HTT-400-1</b> IP64 Rated 	<b>HT-20C</b> IP67 Rated 	<b>NR60</b> IP67 Rated 
<b>HT-400</b> IP64 Rated 	<b>HT-400-X</b> IP64 Rated 		<b>NR25</b> IP67 Rated 	EtherNet/IP  Modbus  DeviceNet 
	<b>HTT-400-X</b> IP64 Rated 			
	<b>HTT/HMT-425</b> IP67 Rated 			

AMCI offers over 50 different types of resolvers including solid shaft and hub shaft versions. Both types incorporate an oversized double row bearing that supports shaft loads up to 100 lbs. radial / 50 lbs. axial.

## Size 11 Resolvers

Control Transmitters	Control Transformers
<b>R11X Series</b> IP67 Rated 	<b>R11W Series</b> IP67 Rated 

Over 20 different types available. AMCI can customize any R11 resolver for OEM and large volume end-user customers. Direct replacements for Harowe & Kearfott.

# Specialty I/O

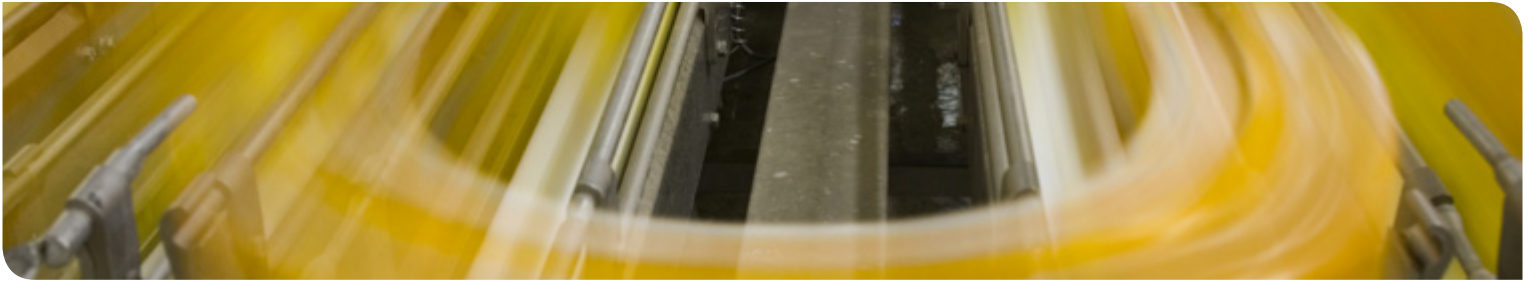
## ► Hard to Find Functionality

AMCI's 25+ years of experience developing specialty I/O solutions for the world's largest PLC manufacturers is the backbone of our product development. Our selection of specialty I/O products are unmatched in terms of variety, performance, and user-friendliness. Whether you're using an Allen-Bradley PLC or Siemens PAC, AMCI has the specialized I/O needed to transform standard controllers into high performance automation solutions. Plug-in modules and networked solutions include advanced position sensing, motion control, stamping press automation, and packaging control.









	Plug-In I/O										Distributed I/O	
	Allen-Bradley					GE Fanuc		Schneider				
<b>Position Sensing</b>												
Resolver	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
SSI	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓
LDT	✓					✓	✓	✓	✓			✓
LVDT/RVDT											✓	
EnDat	✓											
High Speed Counter											✓	
High Speed Analog	✓											
<b>Motion Controllers</b>												
Stepper/Servo	✓	✓	✓	✓	✓	✓					✓	✓
PWM					✓							
Drive + Controller											✓	
<b>Packaging &amp; Press</b>												
PLS	✓	✓	✓						✓		✓	✓
Brake Monitoring	✓	✓	✓	✓		✓						✓
Die Protection		✓	✓			✓						✓
Tonnage Monitor												✓

# Motion Control







## Integrated Solutions





Drive + Controllers	Motor + Drives	Motor + Drive + Control	Motor + Drive + Control	Integrated designs that simplify installation, reduce wiring, and save time & money!
<b>SD17060#</b> Up to 6.0 Arms 95-132 Vac Up to 32,767 steps/rev. 	<b>SMD Series</b> Up to 350 oz-in torque (2.47 N-m) 24-48 Vdc IP50 Rated <small>Above product is not networked</small> 	<b>SMD(23/24)# Series</b> Up to 350 oz-in torque (2.47 N-m) 24-48 Vdc Optional incremental or absolute encoder Embedded switch IP50 or IP67 Rated 	<b>SMD34# Series</b> Up to 1100 oz-in torque (7.77 N-m) 24-80 Vdc Optional incremental or absolute encoder Embedded switch IP65 or IP67 Rated 	
<b>SD31045#</b> Up to 4.5 Arms 95-264 Vac Up to 32,767 steps/rev 				
<b>ANG1#</b> Up to 4.0 Arms 24-48 Vdc Up to 32,767 steps/rev 				

**# = Network Selection**



E = EtherNet/IP & Modbus-TCP  
 E2 = EtherNet/IP and Modbus-TCP w/Embedded Switch  
 M = Modbus-RTU  
 P = Profibus

## Stepper Drives

DC Drive	AC Drives		AMCI AC and DC powered micro-stepping drives feature a compact design, versatile mounting, and simplified set-up. AC powered drives are UL Listed.
<b>SD7540A</b> Up to 4.0 Arms 24-75 Vdc Up to 5,000 steps/rev. 	<b>SD17040C</b> Up to 4.0 Arms 95-132 Vac Up to 50,800 steps/rev. 	<b>SD31045</b> Up to 4.5 Arms 95-264 Vac Up to 50,800 steps/rev. 	
	<b>SD17060B</b> Up to 6.3 Arms 95-132 Vac Up to 50,800 steps/rev. 		

## Stepper Motors

NEMA Size 23	NEMA Size 34	AMCI SM Series high performance stepper motors are available with single shaft, double shaft, and an optional rear-mounted encoder. These motors deliver high performance torque, speed, and range.
<b>SM2340</b> 130 oz-in or 240 oz-in (up to 1.69 N-m) Single or double shaft Optional 1000 line encoder 	<b>SM34</b> 450, 850, or 1,100 oz-in (up to 7.77 N-m) Single or double shaft Optional 1000 line encoder 	



## ► Over 30 Years of Industrial Control Solutions

Advanced Micro Controls Inc. (AMCI) was founded in 1985 on the idea that industrial controls should simplify automation, increase application performance and add reliability to the manufacturing process. These guiding principles inspired the development of our first specialty I/O module more than 25 years ago.

Today, AMCI remains focused on PLC-based position sensing products and motion control technology. A lot has changed at AMCI over the years, except our commitment to supplying you with superior industrial control solutions.

*Over twenty-five years ago, we developed the unique technology to interface the resolver sensor directly into the Allen-Bradley PLC-5 with the AMCI 1700 series resolver interface module.*

## ► Ask the Experts!

Want to talk with an engineer? Call **860-585-1254**.

Visit [www.amci.com](http://www.amci.com) to learn more about PLCs, encoders and resolvers.

### You'll find:

- Videos
- Tech tutorials
- Product data sheets
- Sample programs
- FAQs
- Case studies



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