

# INDUSTRIAL CONTROL SOLUTIONS

## PLC-BASED AUTOMATION PRODUCTS

- POSITION SENSING
- SPECIALTY I/O
- 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.

## QUALITY & CONVENIENCE



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.












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.



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>NR60</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>DC60</b> IP67 Rated Up to 16 bits   <b>DC425</b> IP67 Rated Up to 16 bits	 <b>DC25</b> IP67 Rated Up to 4096 cycles/turn	 <b>DC25</b> IP67 Rated Up to 12 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.

## RESOLVER TRANSDUCERS

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

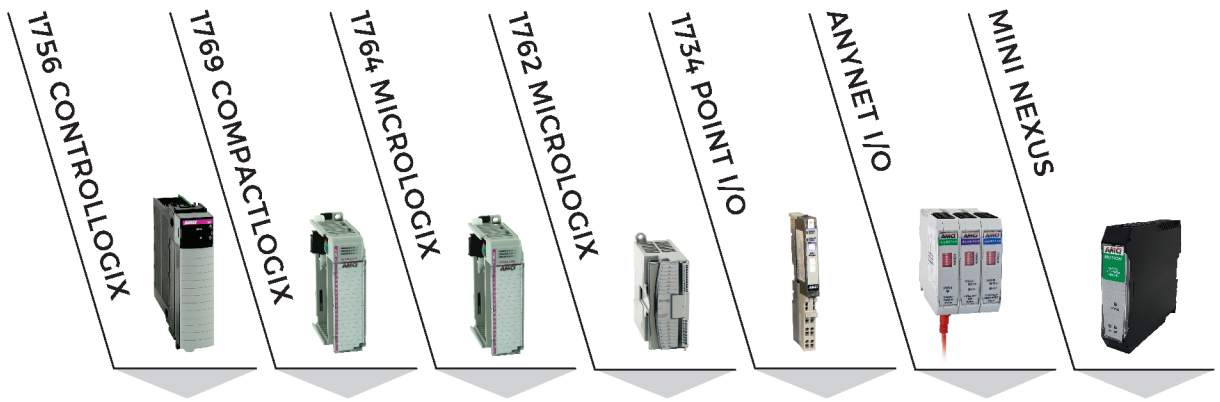
## SIZE 11 RESOLVERS

Control Transmitters	Control Transformers	Over 20 different types available. AMCI can customize any R11 resolver for OEM and large volume end-user customers. Direct replacements for Harowe & Kearfott.
 <b>R11X Series</b>	 <b>R11W Series</b>	

# SPECIALTY I/O

## Hard to Find Functionality

AMCI's 30+ 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

	Allen-Bradley							
<b>Position Sensing</b>								
Resolver	✓	✓	✓	✓		✓	✓	
SSI	✓	✓	✓	✓		✓	✓	
LDT	✓							
<b>Motion Controllers</b>								
Stepper/Servo	✓	✓	✓	✓	✓	✓	✓	
PWM					✓		✓	
Drive + Controller						✓	✓	
<b>Packaging &amp; Press</b>								
PLS	✓	✓	✓			✓		
Brake Monitoring	✓	✓	✓	✓		✓		
Die Protection		✓	✓			✓		
Tonnage Monitor								

EtherNet/IP

DeviceNet

Modbus

EtherCAT














PROFIBUS

PROFINET




Network-Ready

# MOTION CONTROL



## INTEGRATED SOLUTIONS

Drive + Controllers	Motor + Drives	Motor + Drive + Control	
 <p><b>SD17060#</b> Up to 6.0 Arms 95-132 Vac Up to 32,767 steps/rev.</p>  <p><b>SD31045#</b> Up to 4.5 Arms 95-264 Vac Up to 32,767 steps/rev</p>	 <p><b>SMD Series</b> Up to 350 oz-in torque (2.47 N-m) 24-48 Vdc IP50 Rated Product is not networked</p>	 <p><b>SMD17E2</b></p>  <p><b>SMD(23/24)# Series</b></p>  <p><b>SMD34# Series</b></p>	 <p><b>SV160E2</b> 160W motor .5Nm continuous, 1.3Nm peak</p>  <p><b>SV400E2</b> 400W motor 1.3Nm continuous, 3.3Nm peak</p>
<p>Integrated designs that simplify installation, reduce wiring, and save time &amp; money!</p>		<p>Torque - 80 -1100 oz-in 24-48Vdc - <b>SMD17E2</b> &amp; <b>SMD23/4E2</b> 24-80Vdc - <b>SMD34E2</b> encoder feedback standard Embedded Ethernet switch optional IP65 or IP67 rating</p>	
<p># = Network Selection E = EtherNet/IP &amp; Modbus-TCP E2 = EtherNet/IP, Profinet, &amp; Modbus TCP; embedded Ethernet switch P = Profibus K = EtherCAT - available for drive + controllers and motor + drive + controllers</p>		<p><b>Common specs</b> 24-80Vdc Embedded Ethernet switch optional -Brake -STO -IP50 rated</p>     	

## STEPPER DRIVES

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

## 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.
 <p><b>SM2340</b> 130 oz-in or 240 oz-in (up to 1.69 N-m) Single or double shaft Optional 1000 line encoder</p>	 <p><b>SM34</b> 450, 850, or 1,100 oz-in (up to 7.77 N-m) Single or double shaft Optional 1000 line encoder</p>	



**AMCI** ADVANCED  
MICRO CONTROLS INC.

35+

## 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 30 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.

### Ask the Experts!

Want to talk with an engineer?

Call **877-781-4951**

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

**AMCI.COM**

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