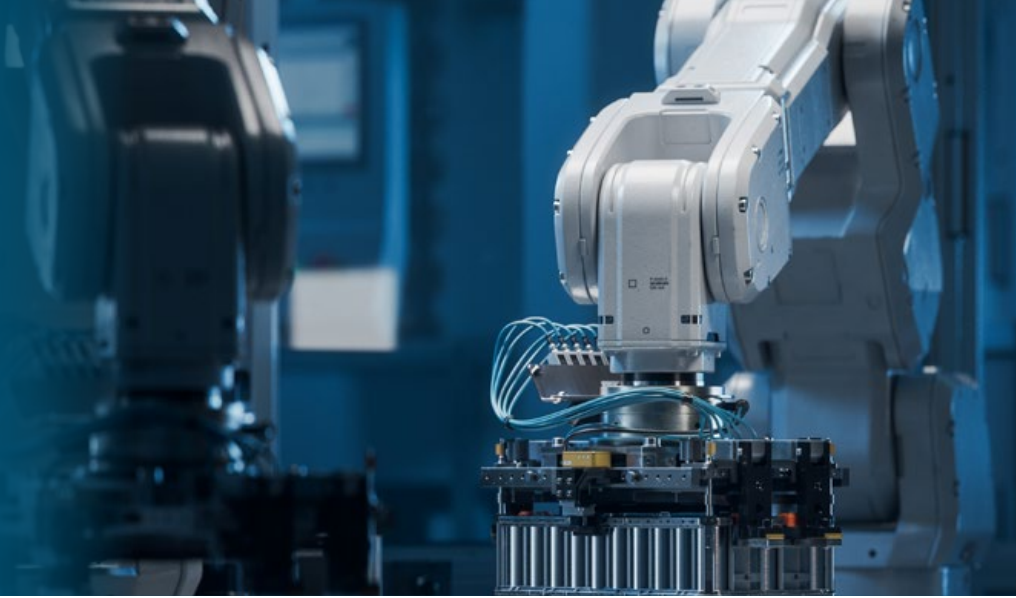




Positronic®
an Amphenol company



ROBOTICS & AUTOMATION

Robotics and automation are revolutionizing industries by streamlining processes, increasing efficiency, and enhancing productivity. With sophisticated sensors and algorithms, robots are reshaping work dynamics with the use of intelligent control systems.

Electronic connectors play a pivotal role in the robotics and automation industry by facilitating the seamless and reliable transmission of power, data, and signals within robotic systems and automated processes. They enable data transfer with real-time communication between sensors, actuators, and control units, ensuring precise and responsive robot movements. Their reliability, modularity, and environmental resilience are critical for the success of automation, driving innovation and efficiency in the modern workforce.

APPLICATIONS

- Autonomous Systems
- Articulated Robots
- Automated Guided Vehicles
- Bioinformatics
- Cartesian Robots
- Cobots
- Delta Robots
- SCARA Robots

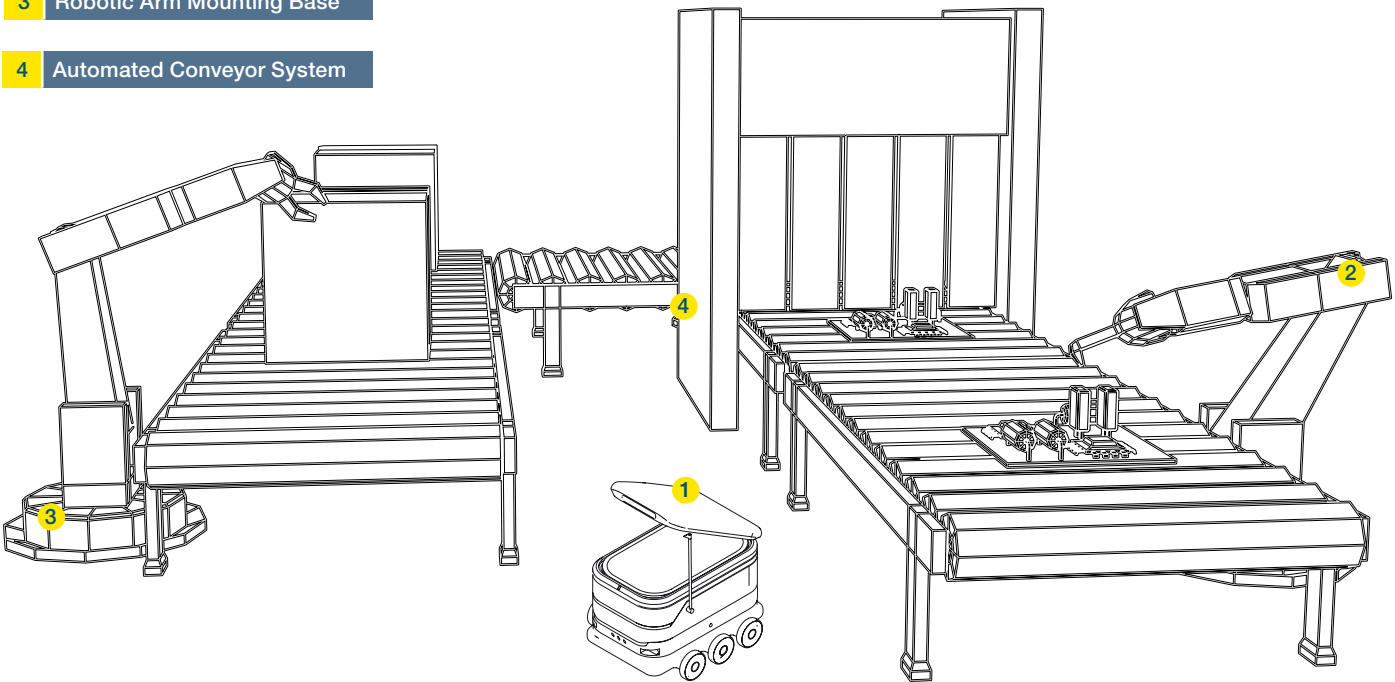
FEATURES & BENEFITS

- Non-magnetic connectors preserve the accuracy, calibration, and reliability of sensitive instruments and electronic systems
- Vibration and shock resistance maintains secure connections
- EMI/RFI shielding protects sensitive electronics from external electromagnetic signals
- Best-in-class power efficiency ensures minimal power loss and heat build-up
- Machined contacts provide stable, durable performance during long life cycles
- Excellent performance-to-price ratio minimizes total cost of ownership
- Excellent linear current density allows for more capability in smaller packaging
- A variety of backshells and accessories allow customized solutions to protect and enhance connections for optimal performance

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In advanced robotics environments such as automated assembly lines, connectors play a critical role in enabling seamless power distribution and data communication. Rugged and modular interconnects link key subsystems like robotic arms, conveyor systems, and mobile delivery units, ensuring reliable signal integrity and efficient energy transfer. These connectors are engineered to endure vibration and shock, ensuring consistent performance in high-demand, precision-driven applications. As robotics continue to expand into industrial, logistics, and AI-driven domains, dependable connector technology becomes essential to maintain uptime and system coordination.

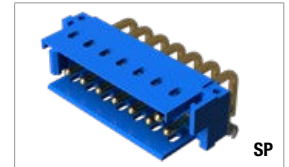
- 1 Delivery Robot
- 2 Robotic Arm
- 3 Robotic Arm Mounting Base
- 4 Automated Conveyor System



	1	2	3	4
	Delivery Robot	Robotic Arm	Robotic Arm Mounting Base	Automated Conveyor System
Combo-D	•	•	•	•
Compact Power	•	•	•	•
D-Sub	•	•	•	•
Goldfish	•	•	•	•
Great Golden		•	•	•
Infinity			•	•
Rectangular	•	•		•
Power Connection	•	•	•	•
Low Profile Scorpion	•	•	•	•
Scorpion	•	•	•	•

* Applications listed are common use cases and not all-inclusive. For additional guidance, please contact Positronic Technical Sales.

FEATURE	POWER & HYBRID								D-SUB		RECTANGULAR	
	PLA PLB PLC	PLS	PCIH PCIA PCIB PCIC PCIM	GFSH	GG	SP	LSP	IP MIP MMIP	SD MD	CBC CBD	SGM SGMC	GF
#0 Contacts					•							
#4 Contacts						•						
#8 Contacts					•	•		•		•		
#12 Contacts		•		•	•	•	•	•				
#16 Contacts	•		•	•	•	•		•				
#18 Contacts						•						
#20 Contacts				•	•		•	•	•	•	•	•
#22 Contacts			•			•						
Solid machined contacts	•	•	•	•	•	•	•	•	•	•	•	•
Power and signal in a single connector			•	•	•	•	•	•		•		
Modular connector with expandable envelope						•	•					
Configurable layout					•	•	•					
Integral blind mating				•	•	•	•	•		•		
IP-rated												
Metal shell									•	•		
High voltage						•	•					
UL approved	•	•	•	•		•		•	•	•	•	•
Wire termination	•	•	•	•	•	•	•	•	•	•	•	•
PCB termination	•	•	•	•		•	•	•	•	•	•	•
Press-fit PCB contacts	•		•	•		•	•	•		•	•	
First mate, last break	•	•	•	•		•	•	•				
Venting						•	•					
Panel mount	•	•	•	•	•	•	•	•	•	•		•
Free cable	•	•	•	•	•	•	•	•	•	•	•	•



SP



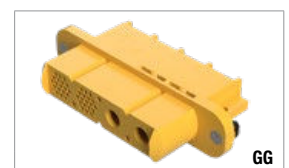
PLS



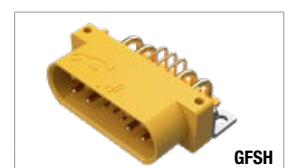
PCIH



IP



GG



GFSH



SD



SGM



CBC

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