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robotics switches & relays

Electromechanical relays and switches are critial in the manufacturing of robotics, ensuring precise control, automation, and safety. They are commonly used in different stages of robotics manufacturing: Power management distribution, motion control and actuation, safety, sensor and feedback systems, and automated control and sequencing.

Electromechanical Relays

Relay & Switch

J102 Series	HOTICSJPANOC 20 ALTRANE Gall 2005 MJ. CC DIT RELAT	Contact Ratings	AgNi 3A@125VAC 5A@125VAC 3A@30VDC 5A@30VDC	AG 1A@125VAC 3A@125VAC 1A@30VDC 3A@30VDC
Contact Arrangements	1A SPST, NO 1B SPST, NC 1C SPDT	Coil Voltages	3VDC; 5VDC; 6VDC; 9VDC; 12VDC; 24VDC	
Coil Power	.20W; .36W; .45W			
J103 Series	Anticopocase Subsection Con RND Or RELAT	Contact Ratings	0.5A@125VAC 1A@30VDC 2A@120VAC 2A@24VDC	
Contact Arrangements	1C SPDT	Coil Voltages	3VDC; 5VDC; 6VDC; 9VDC;	
Coil Power	.15W; .20W		12VDC; 24VDC	
J105E Series		Contact Ratings	NO 10A@120VAC / 277VAC 5A@240VAC / 277VAC 3A@30VDC	NC 10A@120VAC 5A@240VAC 3A@30VDC
Contact Arrangements	1A SPST, NO 1C SPDT	Coil Voltages	3VDC; 5VDC; 6VDC; 9VDC; 12VDC; 18VDC; 24VDC; 48VDC	
Coil Power	.20W; .45W			
J107 Series		Contact Ratings	15A@125VAC 10A@120VAC / 277VAC 7A@240VAC / 30VDC 20A@16VDC / 125VAC	
Contact Arrangements	1A SPST, NO 1B SPST, NC 1C SPDT	Coil Voltages	J107 3VDC; 5VDC; 6VDC; <mark>9VDC;</mark> 12VDC; 18VDC; 24VDC; 48VDC	J107F 3VDC; 5VDC; 9VDC; 12VDC; 24VDC; 48VDC
Coil Power	.36W; <mark>.45</mark> W; .80W			

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Electromechanical Relays J115E, J115F & J115F 50Amp Series



Contact Arrangements 1A SPST NO

1A SPST NO 1B SPST NC 1C SPDT

Coil Power

.6<mark>0W; .9</mark>0W; 1.5W; ; 2VA; 2.7VA

Electromechanical Switches

Snap-Action



Contact Ratings J115E up to 30A J115F up to 40A J115F 50Amp up to 50A

Coil Voltages

J115E 5VDC up to 110VDC J115F 5VDC up to 110VDC; 12VAC up to 277VAC J115F 50Amp 5VDC up to 48VDC; 24VAC up to 277VAC

Electromechanical switches play crucial roles in robotics, offering reliable human-machine interfaces, safety mechanisms, and control functions.

Snap-Actions Switches

- Position Sensing & End Stops Used in robotic arms, CNC machines, and automated assembly lines to detect the position of moving parts.
- Safety Interlocks Ensure mechanical components do not move beyond their intended range.
- Obstacle Detection In mobile robots and automated guides vehicles (AGVs), snap-action switches act at bump sensors.

Anti-Vandal Switches

- Harsh Environment Controls Used inindustrial and outdoor robotics due to their durability, water resistance, and resistance to impact.
- Security & Access Control Prevent unauthorized access to control panels in industrial or public settings

Tactile & Key Switches

- User Interface & Control Panels Found in robotic controllers, remote interfaces, and handheld devices for direct user input.
- Feedback Mechanisms Provide haptic feedback to operators controlling robotic systems.
- Mode Selection & Calibration Used in calibration panels for switching between operational modes.

These switches contribute to reliability, safety, and usability in robotics, ensuring precise control, durability, and user interaction in automation and robotic applications.

CIT Relay & Switch offers all these switches and more for use in robotics industries. Contact us for more detailed information about our electromechanical switches and relays.



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CIT Relay & Switch designs and manufactures a diverse range of RoHS-compliant electromechanical relays, solid-state relays, and switches. We appreciate the opportunity to demonstrate why so many customers trust CIT Relay & Switch for exceptional quality and service.

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