CIT®
Relay & Switch

SMART SOLUTIONS
are found here

Heavy Equipment
relays & switches

Relays and switches play critical roles in the control and operation of various types of heavy machinery and equipment, including skid loaders, front loaders, concrete equipment, off-road vehicles, well-digging equipment, and boom lifts. These components are essential for managing electrical circuits, ensuring safety, and providing operators with control over machinery functions.

PC775 Series

Featuring 75 amp at 14VDC continuous carry, the PC775 screw terminal automotive relay has a max switching current of 150 amps. H Class insulation with copper stud construction for efficient heat dissipation are hallmarks of this rugged relay. Choose from 12VDC or 24VDC with options of resistor, diode or double diode. Coil power is 2.9W.

PC776 Series

Featuring 130 amp at 14VDC continuous carry, the PC776 screw clamp automotive relay has a max switching current of 300 amps. With Form 1X bifurcated contacts, this heavy duty relay gives the design engineer the choice of 12VDC or 24VDC with an IP54 rated dust cover or IP67 sealed enclosure option. Snubber components include a resistor or diode. Coil power is 3.9W with 12VDC or 4.1W with 24VDC. This rugged relay weights 220 grams and comes standard with F Class insulation.

A2H Series

Low temperature rise at full load is a hallmark of the A2H Series. With large switching capacity up to 50A and a choice of PC pin or quick connect mounting, this ruggedly constructed relay offers 1A or 1C contact arrangement with coil voltage option of 12VDC or 24VDC. Coil power is 1.6W. The A2H Series dimensions are 26.0 x 26.0 x 22.7mm, with two styles of mounting flanges.

A2K & A3K Series

The A2K & A3K Series automotive relays offer an internal blowout magnet . . . 60A and 80A respectively, the A2K & A3K automotive relays offer switching capacity up to 110VDC and 145VDC. Suitable for DC motor and lamp control, these relays offer PCB Pin or Quick Connect Mounting options and the option of a diode or resistor. The A2K Series dimensions are 26.5 x 32.0 x 33.5mm and the A3K are 26.5 x 32.0 x 35.5mm. Both offer an optional metal mounting bracket.

A6 Relays

The A6 Series automotive relay is small in size and light weight. Offering low coil power consumption, switching current is up to 30A with contact arrangement choices of 1A or 1C. Coil voltage options are 12VDC or 24VDC with coil power of 0.9W or 1.3W. With PC pin mounting, the A6 Series is 22.5 x 15.0 x 25.2mm. Contact factory directly for information on our shrouded version.

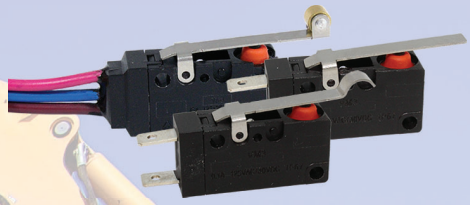
A17 Series

With switching capacity up to 30A, the A17 Series automotive relay is light weight and small in size. Suitable for automotive and lamp accessories, the A17 offers contact arrangement of 1A with coil voltage options of 12VDC or 24VDC and coil power of .96W. PC pin mounted, the A17 Series is 16.5 x 15.5 x 24.3mm in size.

we are your **HEAVY EQUIPMENT** *solution experts*

Anti Vandal Switches

With sealing degree of IP67, CIT Relay & Switch Vandal-Resistant Switches are available in a variety of sizes from 12mm FH & GH Series up to the 40mm DH Series. Also available with UL approval in our AHU and DH22U Series, our IP65 switches offer both ring and dot illumination and non-illuminated options. Choose the EH Series anti-vandal switch for a rounded convex actuator or the AH, BH, CH or DH Series for a flat actuator. Choices of body and actuator color include stainless steel, nickel and anodized aluminum in black, red, yellow, green or blue, with LED bi-color options.



VM3S Series

Frequently known as a micro switch, a snap-action switch is an electromechanical switch that is activitated by very little physical force, through the use of a tipping point mechanism. Snap-action micro switches can open and close an electrical circuit at a rapid speed, triggered by an external force. Our VM3S Series is IP67 and UL/cUL certified and offers .187" Quick Connect or 300mm UL 1015 20AWG wire termination. Pole options include SPST normally open, SPST normally closed or SPDT.

CIT Relay & Switch validation test lab

CIT Relay & Switch operates a state-of-the-art test lab specializing in failure analysis and material evaluation, enabling us to solve our customers' most complex chanllenges. Our goal is to build lasting partnerships by delivering expert technical support backed by our advanced testing capabilities. We provide clear, accurate analysis to help customers understand the performance of their components with confidence.

Our core competencies include engineering design, incoming quality control (IQC), comprehensive validation testing, and correlated customer relay life testing with Weibull curve documentation — all conducted at the CIT Test Lab. Additional strengths include bonded inventory programs, certifications from UL/cUL, and TÜV, rigorous raw material management, and IPC-compliant continuity control and review.

The CIT IQC Lab, in coordination with the CIT Test Lab, ensures the reliability of all incoming components through detailed testing protocols. These include x-ray plating verification of contact materials, resistance and continuity checks, dielectric strength testing, solderability assesment, and more. With warehouse facilities in both Hong Kong and Minnesota, we support on-time delivery and optimized freight costs. To further enhance service, CIT offers bonded stock, consignment programs, and other tailored logistic solutions.

Our technical engineering team is readily accessible and committed to providing rapid application support. From plastics and metallurgy to contact materials, in-rush current protection, molding, sealing, vibration resistance, temperature tolerance, and more — our experts are here to addresss a wide range of technical challenges. We're ready to help.

CIT® Relay & Switch

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CIT Relay & Switch delivers a comprehensive selection of ROHS-compliant electromechanical relays, switches and solid-state relays, designed to meet the demands of a wide variety of industries — from automotive and telecom to industrial automation, building systems, and beyond. We appreciate the opportunity to earn your business and demonstrate why companies across diverse sectors trust CIT for dependable performance, responsive service and consistent quality.

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