

# Two-Hands Safety Relay

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# **TWO-HAND SAFETY RELAY**

## **Abstract**

The two-hand push button control devices could be used in press machines to ensure that both hands are busy while the machine is performing a dangerous motion. However, these controls are oftentimes blocked or bypassed to ease operation and to speed-up production, thus, jeopardizing the safety of the operator. This research was carried out to design a low cost safety device which would require simultaneous pressing of the controls and releasing them prior to the next operation, in order to prevent workers from making the safety device inoperable and avoiding mishaps. One of the most effective safety devices for this purpose is the two-hand safety relay, which operates on the principle of "no hand in die" in press machine. Another objective here was to evaluate the efficiency of the device in terms of controlling accident and productivity.

The study team recommended that the two-hand safety relay be incorporated to existing provisions of OSHS (Rule 1200, Machine Guarding); to add to the range of one of the technical services from the OSHC the design, development, installation and monitoring of such safety devices; and to recommend the use of the improved two-hand safety relay device to DOLE inspectors.