

Safety Matters! Altech's **smaller** Safety Relays

The Altech OA 5642, 5643 and 5644

- 8A Switching Current
- 6-110V DC Coils
- 2-4 Output Contacts
- Various Contact Materials

Altech Safety Relays use Forced-Guided Relay Contacts

Safety relays with forced-guided contacts are the core components for safety devices and are indispensable when designing safety circuits. Safety devices are designed to protect man and machine as demanded in OSHA CFR 1910 Regulations "General Requirements for All Machinery", and which is a mandatory requirement of the European Machinery Directive EMD 2006/42/EC.

Force guidance in a relay means that the contacts in a contact set must be mechanically linked together so that it is impossible for the NO (normally open) and NC (normally closed) contacts to be closed at the same time. The contacts are linked so that no one contact in a relay can change state without changing all the contacts in that relay. There must be a 0.5 mm minimum air gap between the open contacts for the entire service life of the relay, even when a relay part fails to function correctly.



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APPLICATION EXAMPLES

Two Hand Safety Devices
Press systems
Elevators and escalators
Cranes
Door and gate drive systems
Printing and textile machinery
Robots
Stamping machines
Medical equipment

Signaling systems
Emergency Stop Modules
Safety door controls
Pressure mat controls
Light barriers and curtains
Speed controls
Monitoring devices
Safety Gate
Monitor of Safety Circuits