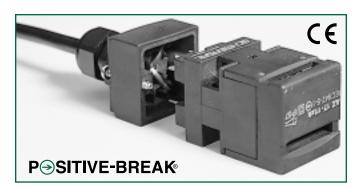
SERIES AZ17zi

Individually-Coded Movable Machine Guard Safety Interlock Switch







INDIVIDUALLY-CODED ACTUATOR KEYS (15,000 CODES)

Description

The compact Series AZ17zi are designed for use with movable machine guards which must be closed for operator safety. Their tamper-resistant design, and positive-opening NC contacts, provide a significantly higher level of safety than conventional spring-driven switches whose contacts can weld/stick shut. Their IP67 rating makes them ideal for interlocking safety guards in hostile environments.

Operation

The AZ17zi is a two-piece, electromechanical safety interlock switch. It consists of a rugged switch mechanism and an individually-coded, geometrically-unique actuating key. The key must be directly hard-mounted to the movable guard. Upon opening of the guard, the normally-closed (NC) contact(s) are forced to open through a direct (non-resilient) mechanical linkage with the actuating key. The positive-break NC contacts assure circuit interruption (and machine stoppage) upon removal of the actuator key. (The NO contacts close upon key removal.)

When the guard is closed, the actuating key forces the NC contacts to re-close, and any NO contacts to re-open. The tamper-resistant design prevents bypassing with simple tools, bent wires or other readily available means.

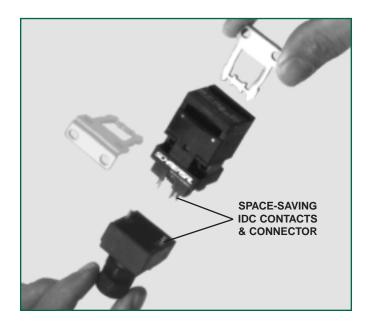
Typical Applications



The AZ17zi is intended for use as a safety interlock on movable machine guards which, when open, expose the operator/maintenance personnel to machine hazards. Typical applications are the interlocking of protective gratings, hinged covers, access panels and other movable guards.

Features & Benefits

- **Highly tamper-resistant actuating mechanism** ... difficult to defeat with simple tools, tape, bent wires, etc. Reduces liability exposure.
- Individually-coded actuator key (15,000 codes) ... provides extra security in high-risk applications.
- Compact design ... only $1\sqrt[7]{4"} \times 1\sqrt[1]{4"} \times 3"$. Ideal where space is limited.
- Non-removable actuating head ... heightens tamperresistance.
- Four optional key entry locations ... provide installation flexibility.
- "Positive-Break" NC contacts ... assure circuit interruption upon actuator key removal.
- Watertight design ... meets IP67 washdown requirements.
- High-strength, stainless-steel actuator key ... tolerates mechanical abuse without damage.
- Rugged, corrosion-resistant housing ... tolerates the most hostile environments.
- Wide selection of accessories ... to meet diverse application requirements.
- **Padlockable key** ... for added security during equipment maintenance.
- Meets rigid safety agency standards ... BG, UL and CSA.



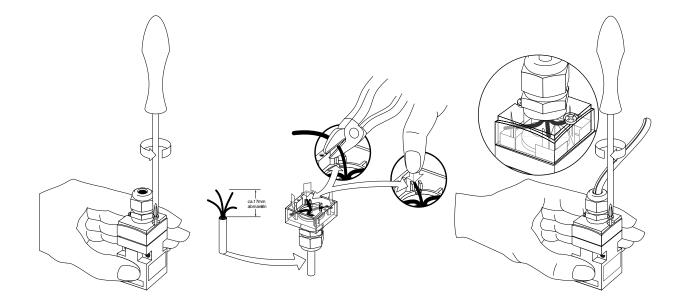
AVAILABLE MODELS (Includes Individually-Coded Actuator Key and 1/2" NPT Plastic Adapter)

Part Number	Description	Contacts (with actuator key inserted)
AZ17-11zi-B1	Standard unit	1 NO & 1 NC
AZ17-11zi-B5		
AZ17-11zi-B6R		
AZ17-11zi-B6L		
AZ17-02zi-B1	Standard unit	2 NC
AZ17-02zi-B5		
AZ17-02zi-B6R		
AZ17-02zi-B6L		

Note: Standard units feature 1.2 pounds of key retention force. For unit with 7 pounds of key retention force, please add suffix "r" to part number. Example: AZ17-11zir-B1

OPTIONAL ACCESSORIES

Part Number	Description
MS AZ 17	Adjustable mounting kit (Eases installation and facilitates adjustment due to guard misalignment)





MECHANICAL SPECIFICATIONS

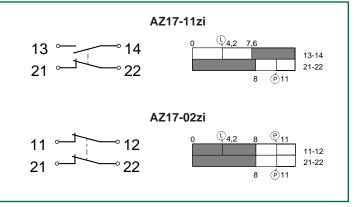
Housing	Glass-fibre reinforced, self- extinguishing thermoplastic
Actuator Key	Stainless steel, 1.4301
Degree of Protection	IP67
Key Retention Force	zi models: 1.2 pounds zir models: 7 pounds
Travel for Positive-Break	8 mm (0.315 inches)
Closing Force	Approx. 12N (2.7 pounds)
Operating Temperature	-22°F to +175°F
Mechanical Life	> 10 ⁶ operations
Conformity to Standards	IEC 947-5-1 EN 60947-5-1 DIN VDE 0660-200 BG-GS-ET, pr EN 1088 UL & CSA
Minimum Closing Radius	1.97" (with B6L or B6R actuator key) 7.87" (with B1 or B5 actuator key)

ELECTRICAL SPECIFICATIONS

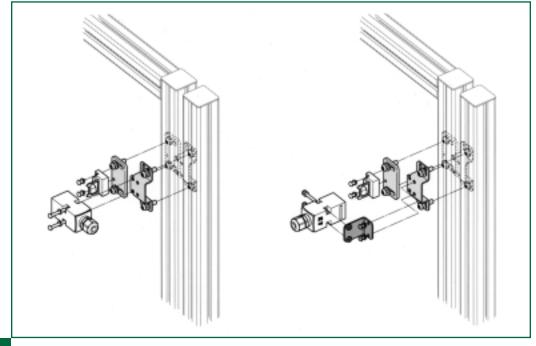
Contacts	Fine silver
Contact Configuration	Double-pole, double-break with electrically separated contact bridges
Contact Rating	4A/230VAC
Switching Action	Slow-action, positive-break NC contacts
Short Circuit Protection	6A (time-delay)
Rated Isolation Voltage	250V
Type Terminals	Insulation displacement contacts & connector for 18AWG flexible stranded wire (0.75 mm ²)

Note: Pre-wired (5 meter length) cable entry models available. See optional accessories.

SWITCHING DIAGRAMS & CONTACT SCHEMATICS



MS AZ 17 ADJUSTABLE MOUNTING KIT



AZ17zi TECHNICAL DATA

DIMENSIONS

