



Typical Applications

The ES95 SB is intended for use as a safety interlock switch on hinged, movable machine guards which, when open, expose operator/maintenance personnel to machine hazards. Their sealed design (IP67) and oil-tolerant seals make them ideal for use in hostile environments.

Features & Benefits

- **Tamper-resistant** ... integral actuator shaft prevents bypassing.
- **“Positive-break” NC contacts** ... ensure circuit interruption upon only 7° of guard displacement.
- **Watertight, oiltight design** ... meets IP67 washdown and immersion requirements.
- **Rugged, corrosion-resistant housing** ... tolerates the most hostile environments.
- **Meets rigid safety agency standards** ... CSA, IEC and BG.
- **Four 90° actuator head positions** ... provide installation flexibility.

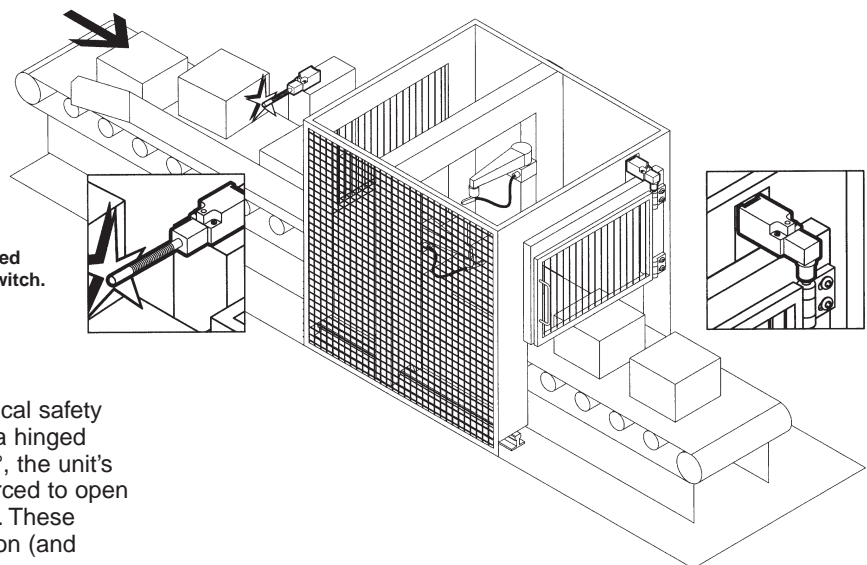
Description

The ES95 SB Series are designed for use with hinged 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 limit switches often used to monitor hinged-guard position. Their IP67 rating make them ideal for interlocking safety guards in hostile environments.

AVAILABLE STANDARD MODELS

Part Number	Contacts (Guard Closed)	Description*
ES95-SB10/1S	1 NO & 1 NC	Hinged safety interlock switch with 10mm diameter shaft bore hole
ES95-SB20	2 NC	

*The actuator head may be rotated into any one of four 90° positions.



Shown with Safety-Rated Positive-Break® limit switch.

Operation



The ES95 SB is a single-piece, electromechanical safety interlock switch which is designed to mount to a hinged machine guard. After opening the guard only 7°, the unit's positive-break, normally-closed contacts are forced to open by a direct (non-resilient) actuating mechanism. These positive-break contacts ensure circuit interruption (and machine stoppage).

ES95 SB TECHNICAL DATA

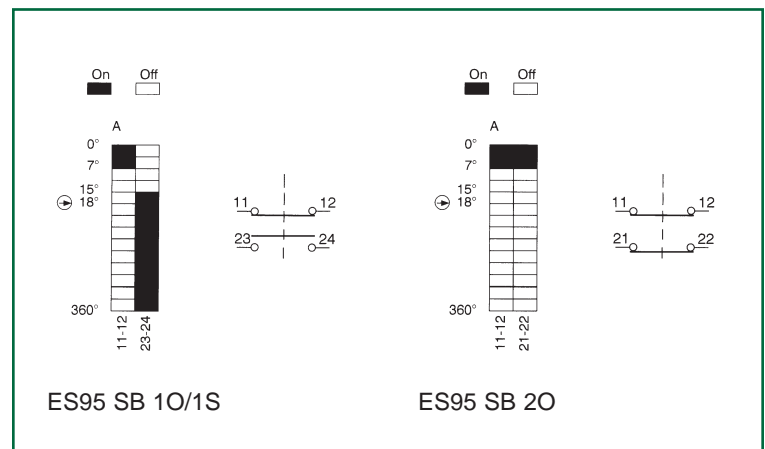
MECHANICAL SPECIFICATIONS

Housing	Glass-fibre reinforced, self-extinguishing thermoplastic
Displacement Angle for Contact Opening	7°
Degree of Protection	IP67
Operating Temperature	-22°F to +195°F
Mechanical Life	10 million operations
Operating Rate	3,600 operations/hour (maximum)
Mounting Arrangement	Mounts on 9mm diameter shaft via mounting screw
Conformity to Standards	BG CSA SUVA

ELECTRICAL SPECIFICATIONS

Contacts	Fine silver
Contact Configuration	Double-pole, double-break with electrically-separated contact bridges
Contact Rating	5A/24VAC 6A/400VAC
Switching Action	Slow-action, positive-break NC contacts
Rated Insulation Voltage	500VAC
Rated Impulse Withstand Voltage	6kV
Type Terminals	Screw terminals with self-lifting clamps for up to 13AWG

SWITCHING DIAGRAM



DIMENSIONS

