SERIES GFS Safety Foot Switch

Features & Benefits

- **Positive-Break Contacts ...** assure circuit interruption upon complete foot pedal actuation.
- **Automatic latching following an emergency stop signal ...** meets EN 418 standard for E Stop switches.
- **Unique design with protective shield ...** avoids unintentional actuation due to falling debris or dropped items.
- **Release modes ...** only manually by pushing the button on the top of the pedal.
- **Heavy duty aluminium Shield ...** tolerates mechanical abuse without damage.
- **Meets rigid safety agency standards ...** UL, CSA, IEC, BG, VDE.

Description

Extensive accident prevention research has shown that in the event of pain/distress, the foot is frequently not removed from the foot pedal that is enabling equipment operation.
Paradoxically, weight is often shifled forward and pressure on the foot pedal is increased (rather than removed).
Recognizing this, the series GFS safety foot switch features 3-stage operation. It is designed to stop hazardous movements in machinery whether released or fully-depressed in an emergency situation.
It positive-break, normally-closed contacts provide a significantly higher level of safety than conventional spring-driven contacts which can weld/stick shut. Their glass-fiber reinforced pedal and aluminium protective shield make them ideal for heavy-duty applications in hostile environments.

AVAILABLE MODELS

Part Number	Contacts
GFS 1 S D 1 O VD	1 NO & 1 NC
GFS 2 S D 2 O VD	2 NO & 2 NC

All Enclosures include PG to 1/2" NPT metal conduit adaptor

Operation

The results of accident prevention research has been translated into a specific product according to the research. In the event of pain, the foot is frequently not removed from the switching pedal, but paradoxically pressure is increased, and the weight shifted forward. The solution to this problem is provided by a 3-stage safety foot switch.

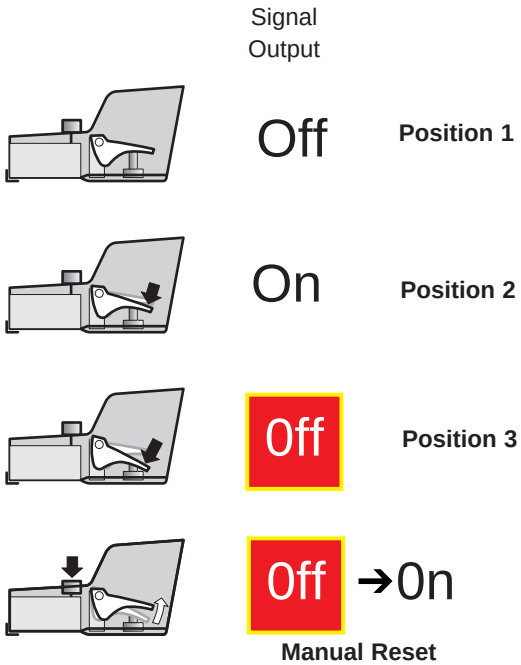
Position 1. The pedal is not actuated in the upper position.
→ Machine " **OFF** "

Position 2. The operation circuit contact closes after actuating the foot pedal, the pedal is in contact with the tangible pressure-point stop.
→ Machine " **ON** "

Position 3. The pressure point is overcome in the event of danger or sensing pain, the circuit contact opens and is automatically latched.
→ Machine " **Emergency Stop** "

Operation to position 3 requires manual reset using the integral push button actuator

Optional safety controllers for E-Stop applications can be found in Catalog GK-2.



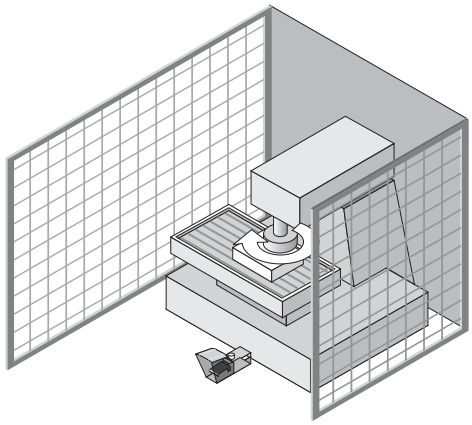
Typical Applications

The GFS foot switch is intended for use in machines or areas where operation using the hands is not possible. Typical applications are profile and tube bending machines, bar turning machines, thread cutting, and wire drawing machines.

GFS SERIES TECHNICAL DATA

ELECTRICAL SPECIFICATIONS

Electrical specifications	
Contact Rating	16 A / 400 VAC
Switching Action	Slow-action NC ⊖ Positive break contacts
Rated Insulation Voltage	500 V
Type Terminals	Screw terminals,2.5 mm^2 max. (including conductor ferrules)
Withstand Voltage	6 kV
Thermal test current	10 A
Max. fuse rating	16 A (slow-blow)
Mechanical specifications	
Enclosure	Alluminum (die casting)
Protecting Hood	Alluminum (die casting)
Pedal	Glass-fiber reinforced thermoplastic (nylon 66)
Degree of Protection	IP 65 to IEC/EN 60529
Ambient temperature	-25 °C to + 80 °C
Mechanical life	> 1 million operations
Conformity to Standards	IEC/EN 60947-5-1, EN 418 Ⓑ BG-GS-ET-15

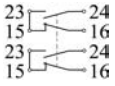


CONTACT DIAGRAMS

1 NO
1 NC

GFS 1S D 1O VD

2 NO
2 NC



GFS 2S D 2O VD

GFS SERIES DIMENSIONS