

# INDUSTRIAL & ROBOTIC Safeguarding Solutions

## FSC-57 Controller

(Din Rail Controller mounted in a NEMA 13 Metal Enclosure)

- Detachable Terminal Blocks
- 5 Input Configurations  
(single and dual channel modes hardware selectable)
- Approved Category 4 Safety Device
- 2 LED Indicator Lights
  - Green for Power
  - Red for Fault
- Dimensions: 4 5/16" x 6 5/16" x 6 5/16"

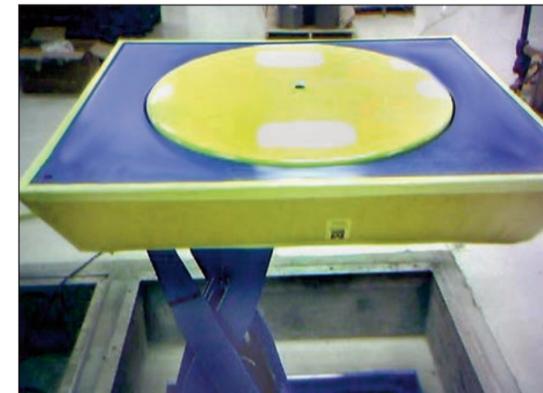


### WARRANTY:

Miller Edge will replace within 2 years from date of shipment from our factory, any ME151 mat subject to normal use which is found to have defective materials or workmanship, as determined by our authorized factory representative. Replacements will be shipped to you freight collect. This guarantee is void where evidence of misuse is present.

**Our Locations:** We have two manufacturing and sales offices to better serve you.

- Our West Coast Facility in Tempe, AZ
- Our Headquarters in West Grove, PA



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*"Making Your World A Safer Place!"*





## Welcome to Miller Edge...

For over 70 years, Miller Edge has set the industry standards for quality and performance of industrial automation safeguarding. Our unique patented Guardian Mat® construction along with hermetic welding, allows us to produce an endless variety of custom shapes and sizes, with the shortest lead time in the industry. They are available with diamond top or ribbed non-skid top surface and have sensitive edges so they require no joining strips. All of our mats are both TUV and CE certified and are designed to meet or exceed industry standards.

### Safety Mats for Area Guarding

Manufacturing plants often include areas surrounding machinery that pose a hazard or threat to personnel or equipment. In an ideal situation, the hazard would be totally eliminated and all risk would be avoided, however that is not always possible.

The ME 151 Guardian Mats® may be used for area guarding surrounding industrial robots and other automated plant equipment.

This presence-sensing mat operates on the principle of a basic normally open switch. When a specified weight is applied to the mat, the inner flexible contact elements touch and “close” the switch. Typically these mats are wired to the emergency motor controls to signal the equipment to stop. ME151 Guardian Mats® may be wired in series to create a continuous sensitized area. Beveled aluminum trim retainers are used to secure the mat to the floor.

### Safety Mats for Perimeter Guarding

Perimeter guards are used to create a barrier to entrance into a hazardous area. Often, “hard guards” such as fencing are used for this purpose. In some situations these types of guards may not be desirable as they may also obstruct sight.

The ME 151 Guardian Mats® may be used for perimeter guarding surrounding potentially hazardous plant equipment.

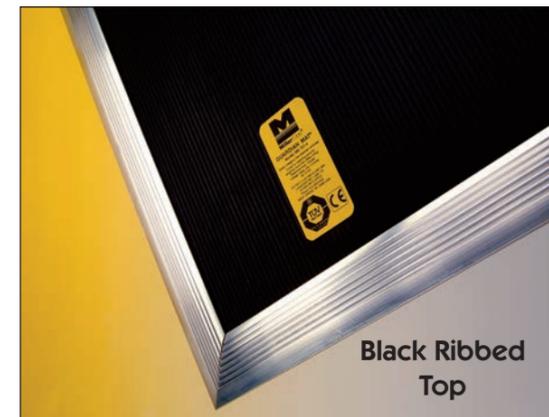
The Guardian Mat® is placed on the floor in the “safe” zone to signal equipment to stop before a person enters the hazardous area. This sensing mat operates on the same principle as the Area Guarding Mat system.



**Custom Fit Sensing Mats  
Made to Order**



**Yellow Ribbed  
Top**



**Black Ribbed  
Top**

### Safety Mats for Machine Guarding

Guardian Mats® can be used for safeguarding protection on many different machines and auxiliary equipment. These heavy duty pressure sensitive mats, are highly resistant to common oils and chemicals. They are flame and water resistant and can be custom designed to fit your specific design needs.

### Fail Safe Wiring

Optional controllers are used for monitoring the safety inputs from the mat. If the wiring is cut or there is a fault in the mat system, a signal is sent to the motor controls to stop operation.

### Where are Guardian Mats® Used:

Guardian Mats® can be found in automated manufacturing facilities in various industries including: aerospace, automotive, packaging and textiles.

### Alumiglas® Contact Elements

Blanketed contact elements cover the entire surface virtually eliminating any dead zones in the active area. Alumaglas® will not rust or dent. It is completely flexible enabling it to bounce back from impacts without dents which could damage other rigid contact elements.



### Guardian Mat® Unique Patented Construction:

- Heavy Duty PVC Top Cover →
- Alumiglas® Contact Element →
- Die Cut Foam Separator →
- Alumiglas® Contact Element →
- Heavy Duty PVC Bottom Cover →



### APPLICATIONS:

- Robotic Welding Cells
  - Pick and Place Robots
  - Water Jet Machines
  - Laser Cutting
- Assembly Machines
  - Plastic Injection Molding
  - Die Casting Machines
  - Conveyors
- Automated Stamping
  - Laser Welding
  - CNC Milling
  - CNC Punch Presses
- Material Handling
  - Tube Bending
  - Automated Packaging
  - Textile Machinery

