INDUSTRIAL
Safe Guarding Solutions

Miller Edge

P.O. Box 159 • West Grove, PA 19390 • 800-220-3343 • 610-869-4422 • Fax: 610-869-4423 • www.milleredge.com
6809 S. Harl Ave., Ste. A • Tempe, AZ 85283 • 800-887-3343 • 480-755-3565 • Fax: 480-755-3558

ME151 Guardian Mat

Black Diamond Top

Black Ribbed Top

Yellow Ribbed Top

APPLICATIONS:

- Perimeter Guarding
- Machine Guarding
- Area Guarding

FEATURES:

- Heavy Duty - Impact Resistant
- Available in Diamond Top or Ribbed Non-Skid surface
- Flame Resistant
- Water Resistant
- Sensitive Edges
- No Joining Strips
- Custom Shapes
- Optional Aluminum Retainer (Mitered or Straight Corners)
- Optional PVC Retainer (Mitered or Straight Corners)

SPECIFICATIONS:

- Outer Material: PVC
- Assembled Mat Thickness: 5/8”
- Color: Black or Yellow (Yellow not available in diamond top)
- Lead Wire: 16 AWG, 10ft long
- Electrical Diagram: 4 Wire, N.O.
- Electrical Requirements: 24 Volt, 1/2 amp AC or DC
- Optional Connectors: Quick Micro Disconnect
- Minimum Sensitivity: 66 lbs (30kg) per 3 1/8” (80mm) dia.
- Cycle Test: 1 Million
- Maximum Width: 36” and 48” Standard - Up to 56” optional
- Temperature Range: -29ºC to +70ºC (-20ºF to 158ºF)
- Fire resistant; Self Extinguishing
- Weathering: 7 Days - No visual change
- Cracking: None - @ 1/4” mandrel at -40ºF
- Hardness: 93+/-5 ASTM-D-2240

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.

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.

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FSC-57 Controller *(Din Rail Controller mounted in a NEMA 13 Metal Enclosure)*

Input: 2 or 4 wire n/o safety device
N/O Safety Outputs: 3
Max. Switching Capability per Output: 6A/250VAC/1500VA/150W
Mechanical Life: 10^7 operations
Electrical Life: Additional Data sheet available upon request.

Response Time:
Power Up: 70msec.
Energization (input-output) 20msec.
De-energization (Input-output) 20msec.
Power Loss: 70msec.

External Supply:
24VDC = +15/-20% (A1 = +24VDC and A2 = OVDC)
115VAC= +15/-20%, 50-60 Hz

Operating Temperature
14ºF to 131ºF (-10º C to +55ºC)
Power Consumption
2.3 Watts @ 24VDC <60mA @ 115 VAC

MFSC-100 Controller *(NOT to be used for control reliable applications)*

Input: 4-Wire (GuardianMat® or Sensing Edge)
Output: 1 SPDT output
Output relay: 1 Dry Contact Relay N/O (N/C Optional)
Output relay approvals: UL, CSA
Output contacts: 10A@120VAC, 8A@30VDC Resistive
Mechanical life: 10^7 Operations
Electrical life: 100,000 Operations minimum

Response Time:

Energization (input-output)< 6 milliseconds
Power input: 24VAC + 10% or DC
Power Consumption: <60mA @ 24VAC
Reset: Front panel button
Enclosure: NEMA 4 4.68" x 1.75" x 1.75"

Operating Temperature:
32º F to 131º F (0º C to 55ºC)

***NOTE: DO NOT** drill any holes in the transmitter box. Use only mounting holes provided, any additional holes in transmitter box will cause water to enter and a loss of warranty.*

FSIS-35-4 Controller *(Intrinsically Safe)*

Input: 4-Wire GuardianMat® (up to 4 mats)
Output: 1 SPDT output
Output Relay: Switching Amplifier
Output Relay Approvals: FM, UL, CSA, PTB, SEV
Output Contacts: 4A@ 250VAC, 4A@24VDC
Mechanical Life: 10^7 Operations

Response Time:
Energization (input-output) <20 msec.
Power input: 120VAC +10% - 15%
Power Consumption: <40mA @ 120VAC
Enclosure: Explosion Proof, NEMA 4,7&9 (IP66) - 7 3/4" h x 5 3/4" w x 5 3/4"d
• Approved for hazardous locations NEMA Class I - Groups B,C, &D - Class II - Groups E,F, &G - Class III
Operating Temperature: -13ºF to 140ºF (-25ºC to 60ºC)

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RT6 Safety Relay

The universal safety relay that can satisfy the majority of your safety applications.

The RT6 universal safety relay can supervise both safety devices and the internal safety functions of machines.

The safety relay has been specifically engineered to give the machine designer the ability to select the required level of safety for each specific application. Hardwire configurable inputs permit either single or dual channel circuits as well as hardwire configurable manual supervised or automatic resetting. These features make the RT6 the most versatile safety relay in the market place today.

The manual supervised reset mode can be used in applications such as gates and other guarding systems that require entry to hazardous areas. Automatic reset can be used for example with small latches (no entry required) if it is deemed acceptable following necessary risk analysis.

In addition, the RT6 has transistor outputs that can be used for status information purposes. These outputs can easily be connected into the PLC to indicate inputs and safety outputs.

The RT6 has also been designed to use the minimum number of components, thus providing high reliability and low pricing.

Safety Relay for Monitoring:

- **Emergency Stops**
- **Enabling Devices**
- **Foot Switches**
- **Interlocking Switches**
- **Light Beams**
- **Light Curtains**
- **Machine I/O**
- **Magnetic Switches**
- **Safety Mats & Strips**

FEATURES

- **Detachable Terminal Blocks**
- **5 Input Configurations** (single and dual channel modes hardwire selectable)
- **Manual Supervised or Automatic Reset** (hardwire selectable)
- **Test Input for monitoring of External Relays/Contactors**
- **5 LED Indication: Power On, Input Channels and Safety Outputs**
- **2 Translator Status Information Outputs**
- **24 VDC and 24, 48, 115 and 230 VAC Supply Versions Available**
- **AC Supply Versions can be powered by 24 DC**
- **3 NO Safety Outputs / 1 NC Information Output**
- **45mm Width**
- **Din Rail Mounting**

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