

ArmorMat Safety Mats - Extremely puncture-resistant

Tapeswitch **ArmorMat Industrial Safety Mats** are designed for personnel detection under conditions that are not suitable for conventional safety mat products. They incorporate an impact-resistant, penetration-resistant barrier that easily withstands abuse that would destroy ordinary pressure sensitive safety mats.

Many standard sizes are available. Custom sizes and shapes can be manufactured to order with short lead times.

Features & Benefits

- **Extra heavy-duty industrial safety mat survives harsh treatment**
- **Designed with an impact-resistant, penetration-resistant barrier**
- **Stands up to gouging by sharp objects and pounding by heavy work pieces**
- **Switching elements protected in separate moisture-resistant compartment**
- **[4-lead fail-safe](#) wiring is standard**



Quick-Disconnect Option

The ArmorMat Safety Mat is available with a quick-disconnect option, which protects the mat if the leads are tugged on or otherwise overstressed. It also allows for the repair of damaged leads without replacing the entire mat. If the mat itself has to be replaced, the wiring can be left intact while allowing for the simple installation of a replacement unit.

ArmorMat extra heavy-duty switch mats are nearly impenetrable and withstand abuse such as repeated gouging by dropped sheet metal, piercing by sharp objects, and continual pounding by heavy work pieces.

In conventional safety mats, penetrating objects allow intrusion of moisture, leading to electrical failure. The **ArmorMat** safety mat design safeguards against this failure mode with an impact-resistant barrier that protects a separate moisture-resistant compartment containing the switching elements.

ArmorMat sensing mats are available with square or ramped edges. They are easy to install and require no special floor preparation or add-on metal edges, although these are available. For mat edging options, [click here](#). All safety mats are supplied with [4-lead fail-safe](#) wiring, and are compatible with Tapeswitch [Safety Controllers](#).

Applications - Detect presence of personnel for :

- Machine operation control
- Robot area guarding
- Work cell hazard protection
- Process cycle control
- Automated assembly line guarding
- General hazard protection under harsh conditions

Specifications for ArmorMat Safety Mats

Actuation Force	20 lbs (90 N) nominal with 2 inch (50 mm) diameter disc
Recommended Voltage & Current	24 Vac or Vdc at 1.0 amps max
Environment	IP65 rated, 0 to 122 °F (-18 to 50 °C)
Colors	Black (standard), yellow or blue (optional)
Maximum Size	Up to 48" x 192" single-piece construction
Internal Wiring	Click here for details

Standard Sizes for Amormat Safety Mats

24" x 36" (610 mm x 910 mm)	30" x 48" (762 mm x 1220 mm)
24" x 60" (610 mm x 1520 mm)	36" x 48" (910 mm x 1220 mm)
24" x 72" (610 mm x 1830 mm)	36" x 72" (910 mm x 1830 mm)
	Custom sizes are also available