



NSD Safety Mat System

Digital "On/Off" System

Break through NSD (New Switching Device) technology provides digital (on/off) switching for safety mat applications. The advanced NSD switching mechanism provides the following:

- NSD safety mats are designed to be machine interfaced with only NSD safety relay controllers for normally open SPST 4-wire safety mats.
- No rigid steel electrodes used in the switching mechanism that can rust and dent.
- No wiring solder joints within the mat assembly that could degrade or short out. Wiring solder joints can fail under loads such as fork truck or hand cart traffic.
- Life cycle over 5,000,000 switch activations.
- NSD safety mats provide increased reliability and safety with longer product life.
- Customized wire exit positions available with no additional tooling costs.
- Flexible electrodes prevent kinking/short-outs like rigid steel electrodes when bent.
- Mat electrodes are: Non-Corrosive / Flexible / Non-Magnetic / Anti-Static
- AC or DC input power available.
- Large single mat capability helps eliminate additional interconnect pieces required by others and simplifies installation.
- Dual 20' (6.1m) lengths of two-conductor, 22 gauge multi-strand 300 VAC (four conductors total), CSA & UL listed wiring per mat eases installation time.
- Fast delivery on custom shapes and sizes with no need for special tooling costs.
- Multiple zones in one mat housing available.
- Designed specifically for the rigorous industrial environment.
- Easy to install.
- No vacuum seal to break which induces rust and leads to dead zones.
- Can absorb punctures.
- Dual ribbed mat housing.
- High-temp welding mats available.
- Non-skid or high temperature/wet environment surfaces available.
- Hermetically sealed sensor system (NEMA 6, IP67).
- Adapts well to uneven factory floor installations.
- Custom engineered systems available.
- Large selection of sizes and capabilities.
- Maximum intermittent load on an NSD mat is 3000 PSI.
- Patents pending.
- Warranty - two years.