

# Intrinsically SAFE-PAK® Relays Amplify Sensor Load-Handling Capabilities

Costly explosion-proof enclosures with their mounting requirements are unnecessary. No purging is required.

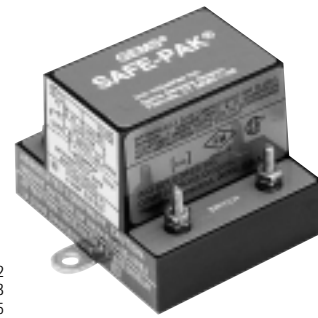
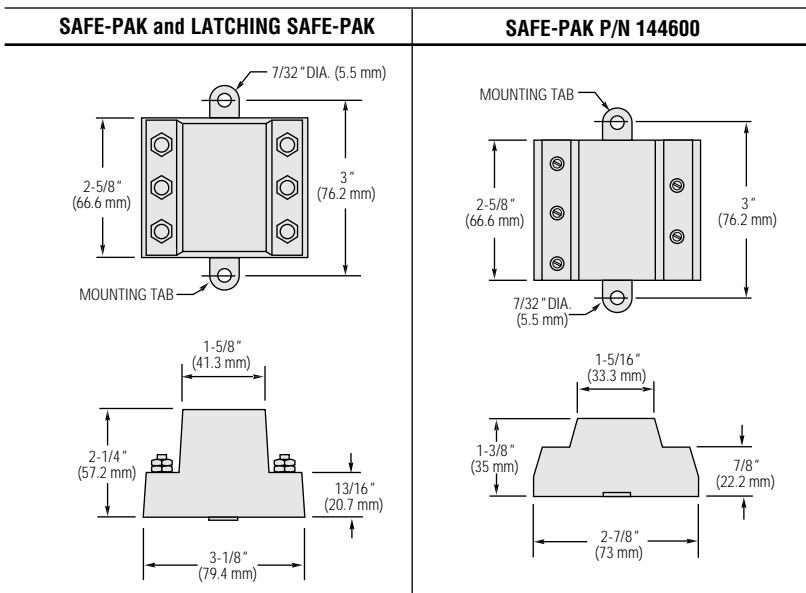
**SAFE-PAK:** Less than 100 microamps at 9 VDC actuates the unit to control loads to 5A at 120 VAC. Resistive (up to 100,000Ω) or short-circuiting sensors operate the unit. 120 VAC and 240 VAC model.

**Low Sensitivity SAFE-PAK:** Sensor closures up to 1000Ω resistance control resistive loads to 5A at 120 VAC. 120 VAC, N.O. model.

**LATCHING SAFE-PAK:** Momentary actuation, "start-stop" or differential control switching for resistive loads to .3A. 120 VAC and 240 VAC, N.O. models. Used on any differential control switch for level, flow, pressure or temperature.

See table on Page N-2 for specific approval information.

## Dimensions

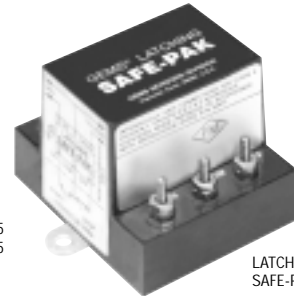


P/N  
25872  
25873  
44075  
64101

See p. N2 for approvals



P/N  
144600



P/N  
41705  
41715

LATCHING  
SAFE-PAK®



## How To Order

Select Part Number based on Relay Style, Operating Voltage and Switch Operation required.

| Relay Style               | Operating & Load Voltage Range | Load Current Maximum             | Turn-On Sensitivity (Typical)* | Turn-Off Sensitivity (Typical)* | Voltage Loss | Operating Temperature Range           | Output Leakage Current Maximum | Switching Operation | Part Number |
|---------------------------|--------------------------------|----------------------------------|--------------------------------|---------------------------------|--------------|---------------------------------------|--------------------------------|---------------------|-------------|
| SAFE-PAK®                 | 100 to 135 VAC                 | 5A                               | 400 K                          | 1 M Ω                           | 2 VAC        | 0°F to +120°F<br>(-17.8°C to +48.9°C) | 6 mA @ 120 VAC                 | SPST N.C.           | 25872 ⚡     |
|                           | 200 to 250 VAC                 |                                  |                                |                                 |              |                                       | 12 mA @ 250 VAC                | SPST N.O.           | 25873 ⚡     |
| Low Sensitivity SAFE-PAK® | 100 to 135 VAC                 | .5A @ 20 VAC†<br>.05A @ 200 VAC† | 25 K                           | 1 M Ω                           | 2 VAC        | 0°F to +120°F<br>(-17.8°C to +48.9°C) | 6 mA @ 120 VAC                 | SPST N.O.           | 44075 ⚡     |
|                           | 110 to 130 VAC                 |                                  |                                |                                 |              |                                       | 0                              | SPST N.O.           | 64101 ⚡     |
|                           | 105 to 125 VAC                 | 5A                               | 500                            | 2000 Ω                          | 2 VAC        | -40°F to +120°F<br>(-40°C to +48.9°C) | 6 mA @ 120 VAC                 | SPST N.O.           | 144600** ⚡  |
| LATCHING SAFE-PAK®        | 105 to 125 VAC                 | 0.3A Steady State                | 25 K                           | 1 M Ω                           | 2 VAC        | +32°F to +120°F<br>(0°C to +48.9°C)   | 3 mA @ 120 V                   | SPST N.O.           | 41705 ⚡     |
|                           | 200 to 250 VAC                 |                                  |                                |                                 |              |                                       | 5 mA @ 250 V                   |                     | 41715       |

\* Temperature Dependent. † 50-60 HZ.

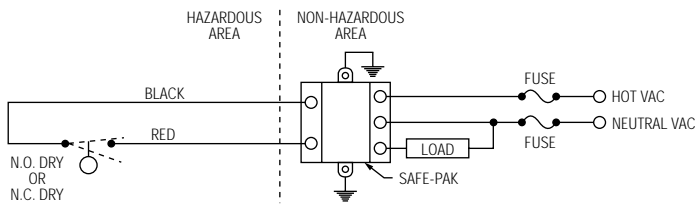
\*\* Part Number 144600 supercedes Part Number 22445. Consult factory for availability of Part Number 22445.

⚡ – Stock Items.

Notes: 1. All AC voltage and current specifications are RMS values unless otherwise stated.

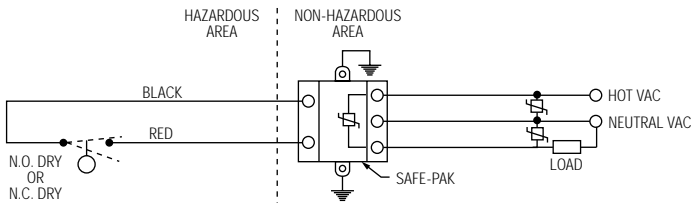
2. Housing material is Polysulfone.

Typical Wiring Diagrams

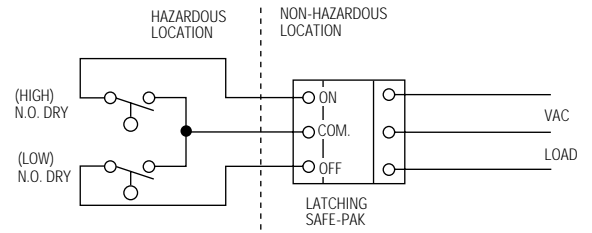


SAFE-PAK, Part Numbers 25872, 25873, 44075, 64101 or 144600 with sensor switch in hazardous location.

Transient Protection for SAFE-PAK (AC Loads) Use a properly sized metal oxide varistor (MOV) as shown below.



Installation and maintenance must be in accordance with the National Electrical Code and the applicable GEMS INSTRUCTION, INSTALLATION and SERVICE bulletin.



Latching SAFE-PAK, Part Number 41705 or 41715 handling high and low level sensors located in hazardous area for pump-down control. For pump-up, use two N.C. dry switches.