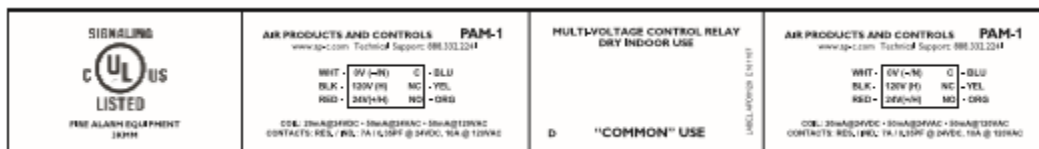


January 5, 2021

## PAM-1 Relay Technical Bulletin

The PAM series of relays including the PAM-1 are listed to UL864 (Standard for Control Units and Accessories for Fire Alarm Systems) to be installed to both NFPA 70® National Electrical Code® and NFPA 72® Nation Fire Alarm and Signaling Code®.

The PAM series of relays including the PAM-1 are designed and listed to be installed in strictly dry indoor locations with the intended use for fire alarm control or status feedback.



The PAM series of relay including the PAM-1 are marked for DRY INDOOR USE and are **not intended or listed** for use in any Marine or SIL rated applications which void the parameters of a dry indoor installation.

The result of installing the PAM series including the PAM-1 relays **outside UL864 applications, outside NFPA 70® and/or NFPA 72® installation practices or in marine applications** can result in overheating, electrical malfunction and/or fire.

Like other modern electronic devices, the PAM series of relays including the PAM-1 are vulnerable to **premature failure and/or malfunction** in applications where they are subjected to **over-voltage conditions, excessive system harmonics** and/or **unmitigated system transients**. Sources can include but are not limited to lightning strikes, unbalanced electrical circuits, overloaded electrical circuits or misrated electrical systems.

Air Products and Controls recommends the removal of installations of the PAM series including PAM-1 relays where they are installed outside of UL864 listed applications **and** are not installed to NFPA 70® and NFPA 72® installation codes **and/or** outside a suitable enclosure. Please contact an Air Products and Controls Technical Specialist at (248) 332-3900 for suitable solutions in these applications.

## Air Products and Controls Engineering

**P:** +1 (248) 332-3900

**E:** tech.support@apollo-fire.com