



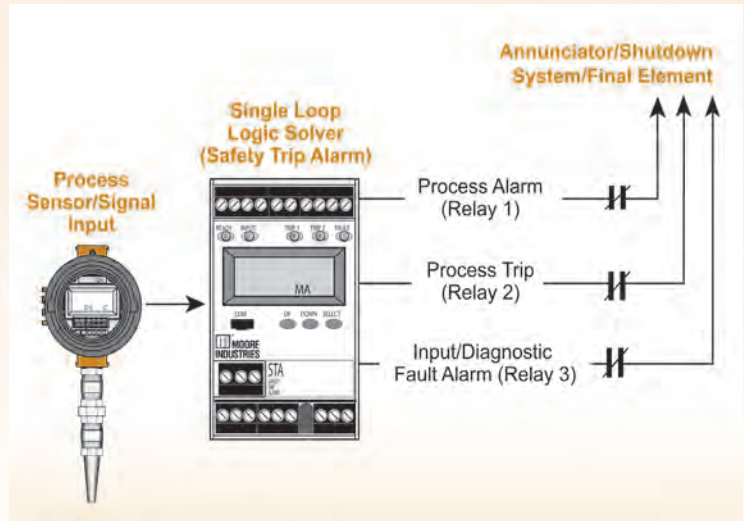
## Learn How Using Single Loop Logic Solvers in Safety Instrumented Systems Saves Time and Money

The process industry is experiencing expanding application of functional process safety techniques driven by increased awareness of industry accidents that are widely publicized in the worldwide media. Companies have a moral and legal obligation to limit risk posed by their operations, and the costs of litigation measuring in the billions of dollars have caught the eye of risk management executives.

As a result, greater emphasis is being placed on utilizing a properly designed process system that optimizes reliability and safety. Process safety engineers are increasingly applying safety standards such as ANSI/ISA 84 and IEC 61508/61511 to dangerous processes to ensure greater operational safety.

To accomplish this, safety practitioners look to equipment specifically designed and approved for use in Safety Instrumented Systems (SIS) that utilize Electrical and/or Electronic and/or Programmable (E/E/PE) technologies.

Moore Industries-International, Inc., a world leader in interface instruments for industrial process control, system integration, and factory automation, has published a white paper titled *"Safety Instrumented Systems: The 'Logic' of Single Loop Logic Solvers."*



*A typical Safety Instrumented System (SIS) is composed of any number or combination of sensors and final control elements. In this example, a simple, yet highly reliable, safety trip alarm performs as a Single Loop Logic Solver.*

The white paper examines what safety-certified Single Loop Logic Solvers can achieve when performing Safety Instrumented Functions (SIF) that require high integrity architectures, high availability architectures or both. With a brief tutorial of Safety Instrumented Systems and their related Safety Instrumented Functions (SIF), the white paper provides valuable safety system background topics including:

- IEC 61508 Guidelines
- FMECA Reports,
- Safety Integrity Level (SIL)
- Effectiveness of Single Loop Logic Solvers
- 1oo2 Redundant Architectures
- Third Party Safety Certifications

Download the white paper at [www.miinet.com/logicsolver](http://www.miinet.com/logicsolver).



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