



E-Stop Safety Module Features

- Monitors one single-channel normally closed Emergency Stop switch circuit for a contact failure or wiring fault
- Three output switching channels for connection to control-reliable power interrupt circuits
- Auto reset or manual reset
- One auxiliary non-safety N/C output contact for status monitoring by process controller
- Design complies with standards UL991, EN418, and EN954-1 (Safety Category 2)
- For use in functional stop category 0 applications per NFPA 79 and EN418
- 6 amp safety output contacts



WARNING . . . This Emergency Stop Safety Module is not a point-of-operation guarding device, as defined by OSHA regulations. It is necessary to install point-of-operation guarding devices, such as safety light curtains and/or hard guards, to protect personnel from hazardous machinery. **Failure to install point-of-operation guards on hazardous machinery can result in a dangerous condition which could lead to serious injury or death.**

Important ... read this page before proceeding!

Banner Engineering Corp. has made every effort to provide complete application, installation, operation, and maintenance instructions. In addition, any questions regarding the use or installation of this Banner Emergency Stop Safety Module should be directed to the factory applications department at the telephone numbers or address shown on back cover.

The user shall ensure that all machine operators, maintenance personnel, electricians, and supervisors are thoroughly familiar with and understand all instructions regarding the installation, maintenance, and use of this Emergency Stop Safety Module, and with the machinery it controls.

The user and any personnel involved with the installation and use of this model Emergency Stop Safety Module must be thoroughly familiar with all applicable ANSI/NFPA standards. The standards, listed below, directly address the use of emergency stop systems. Banner Engineering Corp. makes no claim regarding a specific recommendation of any organization, the accuracy or effectiveness of any information provided, or the appropriateness of the provided information for a specific application.

The user has the responsibility to ensure that all local, state, and national laws, rules, codes, and regulations relating to the use of this Emergency Stop Safety Module in any particular application are satisfied. Extreme care is urged that all legal requirements have been met and that all installation and maintenance instructions contained in this manual are followed.

U. S. Standards Applicable to Use of Emergency Stop Safety Modules

ANSI B11	Standards for Machine Tools “Safety Requirements for the Construction, Care and Use” Available from: Safety Director AMT – The Association for Manufacturing Technology 7901 Westpark Drive McLean, VA 22101-4269 Tel.: 703-827-5266
NFPA79	“Electrical Standard for Industrial Machinery (1997)” Available from: National Fire Protection Association 1 Batterymarch Park, P.O. Box 9101 Quincy, MA 02269-9101 Tel.: 800-344-3555
ANSI/RIA R15.06	“Safety Requirements for Industrial Robots and Robot Systems” Available from: Robotic Industries Association 900 Victors Way, P.O. Box 3724 Ann Arbor, MI 48106 Tel.: 734-994-6088

European Standards Applicable to Use of Emergency Stop Safety Modules

EN292-1	“Safety of Machinery – Basic Concepts, General Principles for Design Part 1: Basic Terminology, Methodology”
EN292-2	“Safety of Machinery – Basic Concepts, General Principles for Design Part 2: Technical Principles and Specifications”
EN60204-1	“Electrical Equipment of Machines: Part 1: General Requirements” Also, request a type “C” standard for your specific machinery.
EN418	“Safety of Machinery – Emergency Stop Equipment Functional Aspects, Principles for Design” Available from: Global Engineering Documents 15 Inverness Way East Englewood, CO 80112-5704 Tel.: 800-854-7179