FM APPROVED

Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

AutroSafe Fire Alarm Control System, BS-310 Fire Alarm Control

Approval Guide Listing: Category:

Fire Protection-Electrical Signaling -Signaling Systems (Fire) -Local Protective Signaling -Local Protective Signaling

Approved for:

Autronica Fire and Security AS
N-7005
Trondheim, Norway

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standards and other documents:

Approval Standards		*Other Standards*	
Class Number	*Date*	*Organization, Designation*	*Date*
3150	December 1974	ANSI/ NFPA 72	1999
3210	July 1978		
3230 – 3250	February 1976		

Original Approval Job Identification: 3008100

Approval Granted: November 2, 2001

Related Report:

Approval Granted:

Subsequent Revisions:
030623
080331

Approval Granted:
June 30, 2003
July 8, 2008

Subsequent reports:

FM Approvals

Patrick Byrne, Technical Team Manager
Electrical Systems

February 22, 2010

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Local Protective Signaling

AutroSafe Fire Alarm Control System consists of either a single control panel or a system of up to five different panels. A single BS-310 Fire Alarm Control using software designated 3.3 requires a BSS-103A 220Vac/ 3A-power supply. It can accommodate a maximum of 14 modules, one BSS-310 power module, one BSL-310 communication module and up to 12 optional modules. Controls are limited to six loops and a total of 512 devices. Loops can contain initiating devices or notification appliances. If the control is equipped with internal batteries the total number of optional modules is reduced to five. The SY 310 battery cabinet provides charging supply and storage location for up to 2, 12 V dc 24 Ah batteries. A multi-panel AutroSafe Fire Alarm Control System includes a BS-320 Control panel using the same software and power as the BS-310 and optional panels: BC-320 controller, BS-330 Operator Panel, BU- 320 and Repeater Panel, BV-320. The BX-3XX controls are suitable for operation in ambient temperatures from 32° to 140°F (0° to 60°C); the BD series heat detectors operate from -4° to 125°F (-20° to 52°C); all other peripheral devices are rated at -4° to 158°F (-20° to 70°C). The control operates on 230 V ac, 50 Hz. Two 12 V dc batteries up to 24 Ah provide the required 24 hours of standby power plus five minutes of alarm. The optional modules are: BSJ-310 output module, each of which allows for 8 programmable open collector, non-monitored 100 mA outputs; BSD-310/311 detector loop module, each of which allows for connection of one loop of 127 devices, which can be configured for Style 7 (Class A) or Style 4.5 (Class B) signaling line circuit performance, panels are limited to six loops and a total of 512 devices, loops can be initiating or notification; BSB-310 alarm output module, each of which allows for connection of 4 alarm outputs having Style Y (Class B) notification appliance circuit performance. Addressable initiating devices include the Models BD-200, BD-300, BD-500, BD-500/N and BD-501 heat detectors rated 130°F (56°C) with RTI classification for detector set to rate compensated is V2Fast with a 10.6m x 10.6 m spacing (35x35 ft). RTI classification for detector set to fixed is Quick with a 6m x 6 m spacing (20x20 ft). Models BH-200, BH-300 and BH-500, BH-500/S and BH-500/N) photoelectric type smoke detectors BH-220, BH-320 and BH-520 photoelectric type smoke detectors with thermistor heat detection and Models BF-300, BF-300M manual fire alarm stations. The addressable interfaces BN-300 with SelfVerify and BN-310 without SelfVerify allow connection of conventional initiating devices. An addressable notification device, the BBR-200 addressable sounder is available to be connected to a BSD-31X loop as an alarm notification device.