

DATA SHEET

ATEX CERTIFIED Electric Remote-Control Industrial Fire Suppression System

The Elkhart Brass ATEX certified Electric Remote-Controlled fire suppression system is designed to provide reliable industrial fire protection solution for the following classified locations

- ATEX Zone 1, Zone 2, Zone 21, Zone 22
- IECEx Zone 1, Zone 2, Zone 21, Zone 22
- Ex db eb h II T4 Gb
- Ex h tb IIIC T130°C Db
- Ex db ec h IIC T4 Gc
- Ex h tc IIIC T130°C De

Features

- 7570 LPM (2000 gpm) maximum flow rate
- Up to 91m (300 ft) stream reach
- 85 Brass monitor construction for corrosive environment and sea water applications
- Ex d flameproof and Ex e increased safety enclosure
- AC synchronous motors operated monitor for heavy duty cycle and no risk of overheating
- Double-race brass bearings on vertical and horizontal swivels ensures monitor reliability and durability
- Manual override enables manual control at any time as desired
- Automatic horizontal oscillation.
- Communication with facility fire detection and alarm system enables system activation via fire alarm input. Available with network control panel only.
- Group response enables grouping and activation of group(s) of monitors with input from fire detection system or a panic push button. Available with network control panel only.
- Optional touch screen HMI control for operation from 2km (1.2 miles distance with multi-mode or 20 km (12.4 miles) distance with single-mode fiber optic connection. Available with network control panel only
- Optional portable Radio Frequency (RF) control with up to 305 m (1000 ft) range. Available with network control panel only
- Networkable (available with network control panel only.)
 - Up to 24 monitors per RF Transmitter
 - Up to 24 monitors per system with HMI via Ethernet IP
- Cat 5e copper or Fiber (multimode or single mode) networking. Available with network control panel only.
- Up to 2 km (1.2 mile) distance between monitors with multi-mode or 20 km (12.4 miles) with single mode fiber optic connection. Available with network control panel only.
- Integration with field devices such as flame and heat detection systems. Available with network control panel only.
- 5 Year limited warranty for monitor system and 2-year limited warranty for control panels



Spitfire Monitor



Control Panel



Remote Control Console



Portable Radio Frequency (RF) Control



Specifications

Monitor	
Pressure	14 BAR (200 psi)
Flow rate	Up to 7570 LPM (2000 gpm) @ 7 BAR (100 psi)
Inlet Size	4-inch 150# FF flange base inlet
Oscillation range	V: +90° to -45° (135°) H: +173° to -173° and 346°
Nozzle Pattern	Straight stream to wide fog
Stream Reach	Up to 91 m (300 feet)
Material	85 Brass
Monitor Dimensions	889mm x 508mm (Height x Diameter) (35" x 20")
Junction Box Material	304 Stainless Steel
Junction Box Dimensions	254 mm x 254 mm x 152 mm (H x W x D) (10" x 10" x 6")
Weight	136 kg (300 lbs.)
Ambient Temperature	-28°C to 85°C (-18° F to 185° F) with water flowing -40°C to 85°C (-40° F to 185° F) without water flowing
Certification	ATEX Zone 1, Zone 2, Zone 21, Zone 22 IECEX Zone 1, Zone 2, Zone 21, Zone 22

Control Panels		
	Standard Control Panel	Network Control Panel
Input Power	2.5A Max. @240VAC 50/60 Hz	2.5A Max. @240VAC 50 Hz
Enclosure Dimensions	446 mm x 1275 mm x 295 mm (17.5" x 50.2" x 11.7")	446 mm x 1275 mm x 420 mm (17.5" x 50.2" x 16.5)
Enclosure Ingress Protection	IP66	IP66
Enclosure Material	Cast aluminum (Ex d Flameproof Enclosure) 316 SS (Ex e Increased Safety Enclosure)	Cast aluminum (Ex d Flameproof Enclosure) 316 SS (Ex e Increased Safety Enclosure)
Weight	80 kg (176 lbs)	146 kg (322 lbs)
Ambient Temperature	-20°C to 40°C (-4°F to 104°F)	-20°C to 40°C (-4°F to 104°F)
Certification	<ul style="list-style-type: none"> ▪ ATEX Zone 1, Zone 2, Zone 21, Zone 22 ▪ IECEX Zone 1, Zone 2, Zone 21, Zone 22 ▪ ATEX Ex II 2GD Ex db IIB+H₂T5 Gb ▪ ATEX Ex tb IIIc T135 Db ▪ IECEX Ex II 2GD Ex db IIB+H₂T5 Gb ▪ IECEX Ex tb IIIc T135 Db 	<ul style="list-style-type: none"> ▪ ATEX Zone 1, Zone 2, Zone 21, Zone 22 ▪ IECEX Zone 1, Zone 2, Zone 21, Zone 22 ▪ ATEX Ex II 2GD Ex db IIB+H₂T5 Gb ▪ ATEX Ex tb IIIc T135 Db ▪ IECEX Ex II 2GD Ex db IIB+H₂T5 Gb ▪ IECEX Ex tb IIIc T135 Db

Remote Control Console	
Input Power	100-120VAC @ <2.1A, 220-240VAC @ 1.0A
Dimensions	Screen: L: 15" x W: 15" (381 mm x 381 mm) Mounting: 508 mm x 508 mm x 311.66 mm (L x W x H) (20" x 20" x 12.27")
Enclosure Rating	NEMA 12/13/4X, IP54, IP65, for indoor use
Material	Painted Carbon Steel
Weight	25 kg (55 lbs.)
Ambient Temperature	0° C to 55° C (32° F to 131° F)

Conductor for Main Control Panel to Monitor Connection	
Conductor	Maximum distance
#14 AWG Wire	366 to 548.6 m (1201 to 1800 ft)
#12 AWG Wire	548.9 to 914.4 m (1801 to 3000 ft)
#10 AWG	488 m (1600 ft)

Radio Frequency Control	
Range	Up to 305 m (1000') line of sight range
Battery Type	Ni MH
Battery Operation Duration	8-10 hours Continuous
Dimensions	470 mm x 368 mm x 216 mm (L x W x H) (18.5" x 14.5" x 8.5")
Material (Bellypack)	Cast aluminum
Weight	6 lb. (2.7 kg)
Ambient Temperature	-25° C to 55° C (-13° F to 131° F)



Network Connectivity	
Type	Maximum Distance Between Nodes
Multimode Fiber Optic Cable	2 km (1.2 miles)
Single Mode Fiber Optic Cable	20 km (12.4 miles)
Cat 5e Ethernet Cable	100 m (328 ft)



Ordering Information

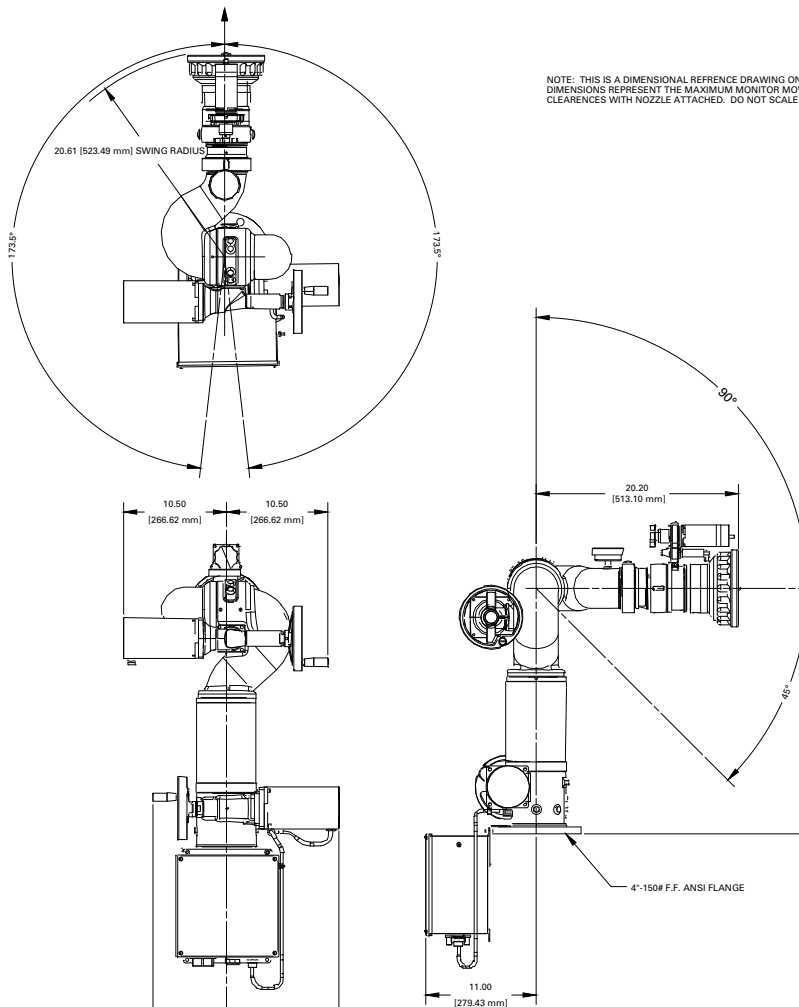
Illustration	Model Number	Standard features	Options
	8394-159	08394159 Spit-Fire monitor Electric Remote Controlled Monitor; 220-240VAC (50/60Hz) Synchronous motors; 2,000 gpm (7,570 LPM) max flow rate; 200psi (13.8BAR) operating pressure; -45° to +90° (135°) max vertical travel; 347° max horizontal travel; 4.0" 150# ANSI flange inlet; 3.5" NHT male outlet; 85 brass with red urethane enamel; suitable for ATEX Zone 1, Zone 2, Zone 21, Zone 22 and IECEx Zone 1, Zone 2, Zone 21, Zone 22; ATEX and IECEx certified, red paint finish	Cold weather optioning operating with ambient temperature: -40° F to 185° F (-28° C to 85° C) with water flowing -18° F to 185° F (-40° C to 85° C) without water flowing Note: Cold weather monitor is neither ATEX nor IECEx certified
Monitor			
	SM1250BE-HL	SM-1250BE-HL ATEX ELEC Nozzle; 220-240VAC (50/60Hz) pattern control synchronous motor; 75 psi (5.17 BAR); 3.5" NH female base constant flow; 230ft (70m) effective reach; straight stream; narrow fog (30°) and wide fog (90°); 350 to 1250 gpm (1,330 to 4,750 LPM) flow rate; brass; suitable for ATEX Zone 1, Zone 2, Zone 21, Zone 22 and IECEx Zone 1, Zone 2, Zone 21, Zone 22 classified locations; ATEX and IECEx certified	
Nozzle			
	SM200BE-HL	SM-2000BE-HL ATEX ELEC Nozzle; 220-240VAC (50/60Hz) pattern control synchronous motor; 75 psi (5.17 BAR); 3.5" NH female base constant flow; 320ft (98m) effective reach; straight stream; narrow fog (30°) and wide fog (90°); 500 to 2000 gpm (1,900 to 7,600 LPM) flow rate; brass; suitable for ATEX Zone 1, Zone 2, Zone 21, Zone 22 and IECEx Zone 1, Zone 2, Zone 21, Zone 22 classified locations; ATEX and IECEx certified	
Nozzle			
	Standard Panel	Local Control Panel; machine motor and operator control panel with a complete panel of function controls; suitable for ATEX Zone 1, Zone 2, Zone 21, Zone 22 and IECEx Zone 1, Zone 2, Zone 21, Zone 22; classified location; 240VAC 50/60Hz input voltage; Ex d cast aluminum enclosure; gland plate included	
Standard Control Panel			
	Network Panel	Local Control Panel; machine motor and operator control panel with a complete panel of function controls; suitable for ATEX Zone 1, Zone 2, Zone 21, Zone 22 and IECEx Zone 1, Zone 2, Zone 21, Zone 22; classified location; 240VAC 50 Hz input voltage; networkable; Alarm Input/Group Response over Ethernet network; Ex d cast aluminum enclosure; gland plate included	<ol style="list-style-type: none"> 1. Optional multi-mode fiber optic network module 2. RF Control 3. Remote HMI control
Network Control Panel			

Ordering Information

Illustration	Model Number	Standard features	Options
	RF Control	RF Controls; provide wireless control of up to 10 monitors on a single belly pack. Handheld options available. ATEX Zone 1 certified.	
Optional RF Control			
	HMI Control	Remote HMI Touchscreen Controller; Provides Control for up to 24 Monitors. Intuitive touchscreen controller, providing all Operator Control Panel functions and advanced programming and troubleshooting functions; 120/240VAC (50/60Hz); UL listed; painted carbon steel	<ol style="list-style-type: none"> 1. Optional Wall Mount, Free-Standing Console, or Desktop Console Enclosures. 2. Optional Fiber Communication Connections. 3. Optional EWON Device (for Elkhart Brass Remote System Troubleshooting) 4. Optional Ergonomic Elabou Joystick
Remote Control Console			

Drawings

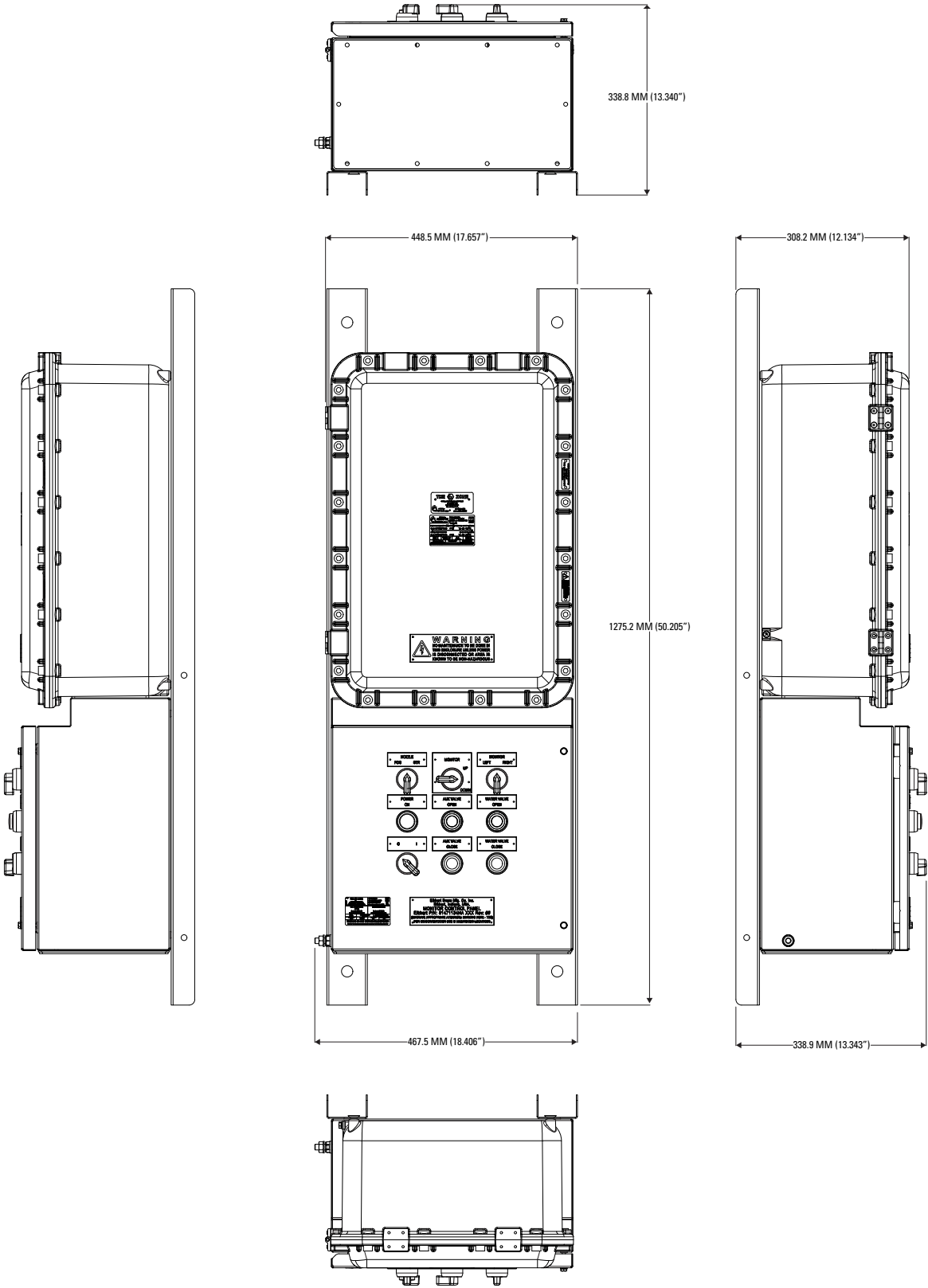
Monitor



+1 574-295-8330
www.elkhartbrass.com

Drawings

Standard Control Panel



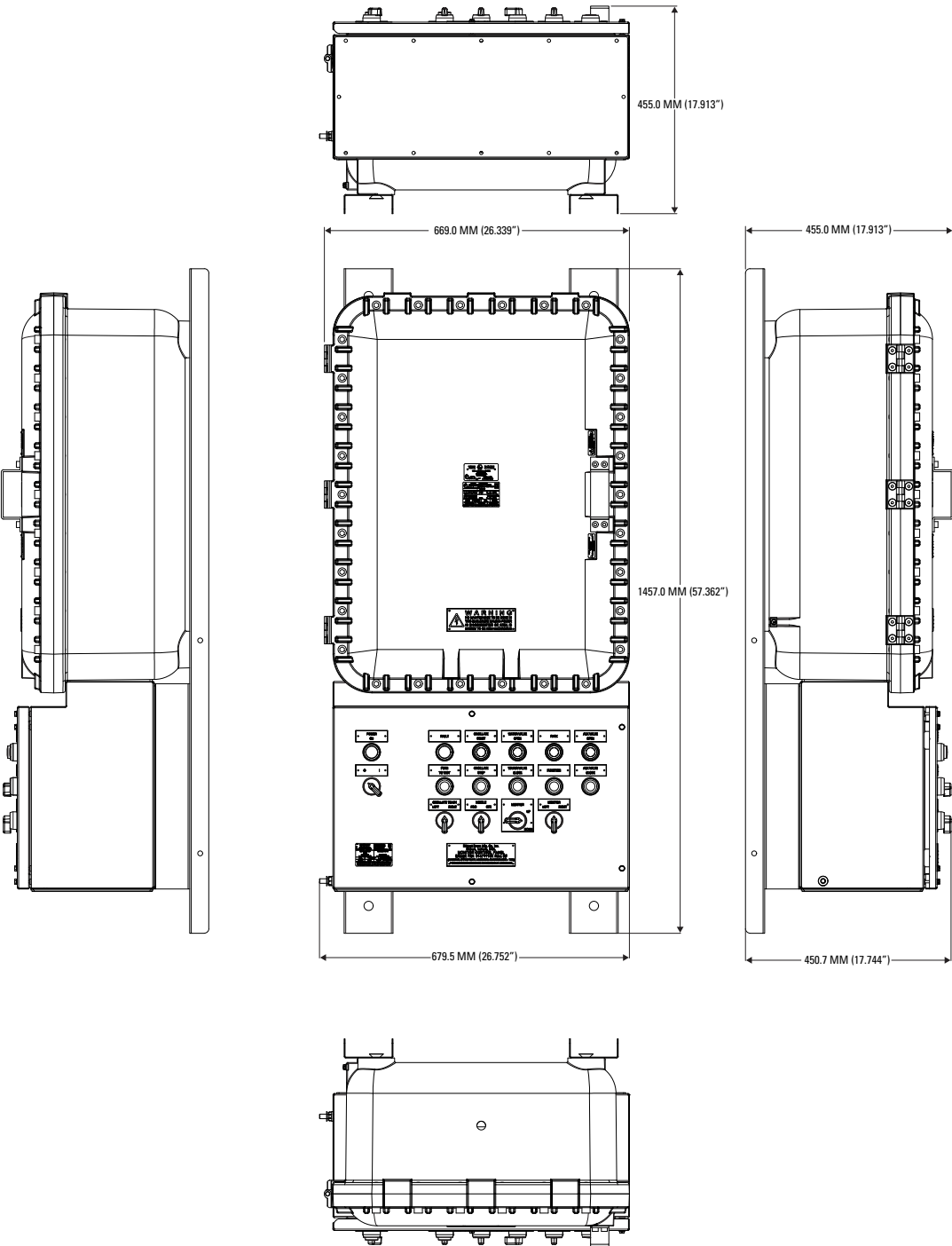
+1 574-295-8330
www.elkhartbrass.com



ELKHART BRASS
 A Safe Fleet Brand

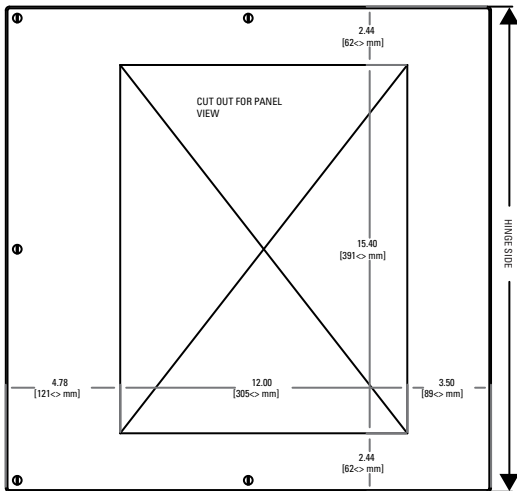
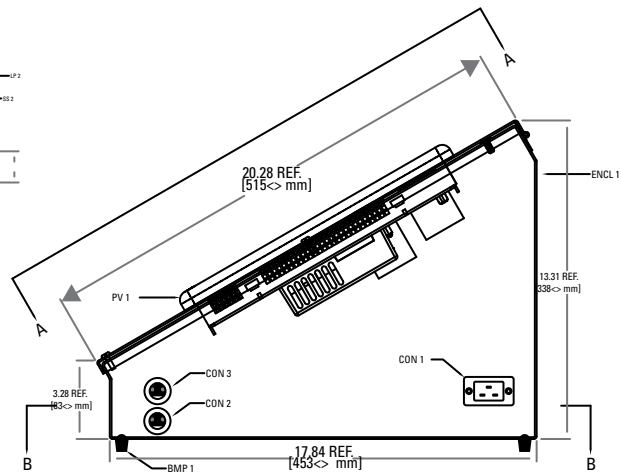
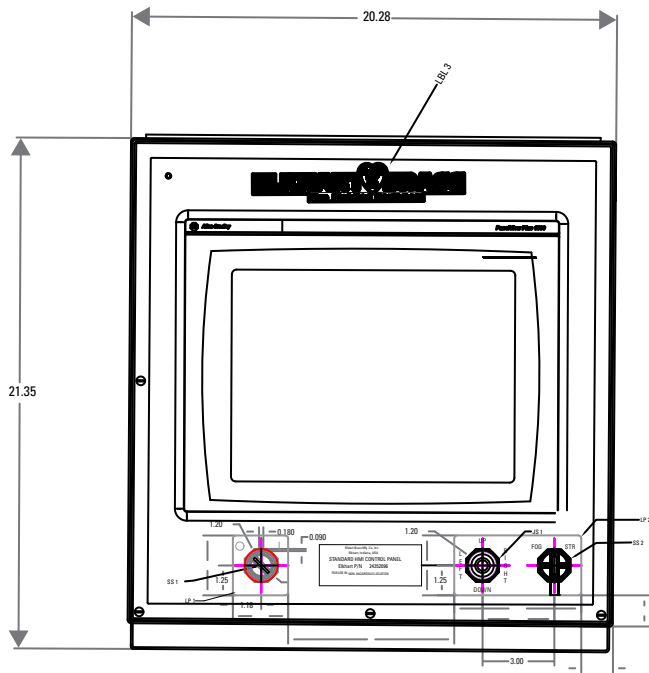
Drawings

Network Control Panel



Drawings

HMI Console



SECTION A-A (ROTATED CW 30 DEG)

