



EXPLOSION PROTECTION CONTROLLER

DESCRIPTION

The Fike Explosion Protection Controller (EPC) is the cornerstone for Fike's EPACO™ system. The EPC continuously monitors the protected hazard, reacts to incipient explosions, and instantaneously actuates the explosion protection system. The system may include explosion suppression, isolation, or a combination.

The EPC can function as a stand-alone controller where a limited number of protection devices are required, or it can be interfaced with other EPCs for larger systems. The EPC is easily programmed via DIP switches for standard applications, while more complex applications can be configured with Fike's EPWorks™ software.

Visual annunciation of the system status is accomplished by LED's. The basic functions provide continuous monitoring, constant self-checking, and circuitry supervision. Auxiliary relays are provided to facilitate process interlocks and alarms.

- Monitors and reports on 32 states, and stores up to 20 history records in relative time. With expansion to Annunciator modules, it is synchronized to real time.
- Fast start-up with pre-configured DIP switch settings or expanded PC options for custom systems.
- Modular design is scalable and allows for fast system expansion, reduced plant downtime, and reduced installation costs
- Fire Bus technology can fire up to 192 actuators within 2 milliseconds
- Pre/Post activation pressure history



STANDARD FEATURES/SPECIFICATIONS

- DIP switch programming of 14 pre-configured standard applications. PC programming for special applications
- Three (3) Detection Inputs
 - Two 4-20 mA supervised detection inputs for continuous process pressure monitoring for both static and rate of rise control
 - One supervised contact input for releasing conditions
- One supervised actuator output capable of firing up to six (6) protection components
- One (1) supervised switch input for monitoring trouble conditions
- Supervised "Disable" contact input
- Two dry contact auxiliary relays for annunciation of "Trouble" and "Alarm" conditions
- Fire Bus for high-speed control and activation of other EPCs in the same protected volume/area (optional connection)
- Status Bus for Fike proprietary network communication of system conditions to other devices (optional wiring)
- Event memory stores the 20 most recent events in relative time, and counts repetitive high priority events
- Pre/Post activation pressure history
- DIN rail mount for flexibility during installation
- Optional field enclosure for installation in hazardous areas
- Input Voltage: 18 to 30 VDC, 500 mA maximum
- Power Consumption:
 - Normal: 275 mA
 - Trouble: 300 mA
 - Alarm: 200 mA
- Series Fire Output:
 - 6 protection components
 - 10 ohms maximum loop resistance
 - 50 VDC, 3.5 A
- Trouble/Alarm Contact Ratings:
 - DC, 2 amps @ 30 VDC
 - AC, 0.5 amps @ 250 VAC
- Temperature Rating (without additional enclosure): -20° to 60°C (0° to 140°F)
- Humidity (non-condensing): 80% RH maximum
- Size: 200mmL x 130mmH x 60mmD (7.7"L x 5.2"H x 2.3"D)*
- Weight: 0.7 kg (1.5 lbs.)



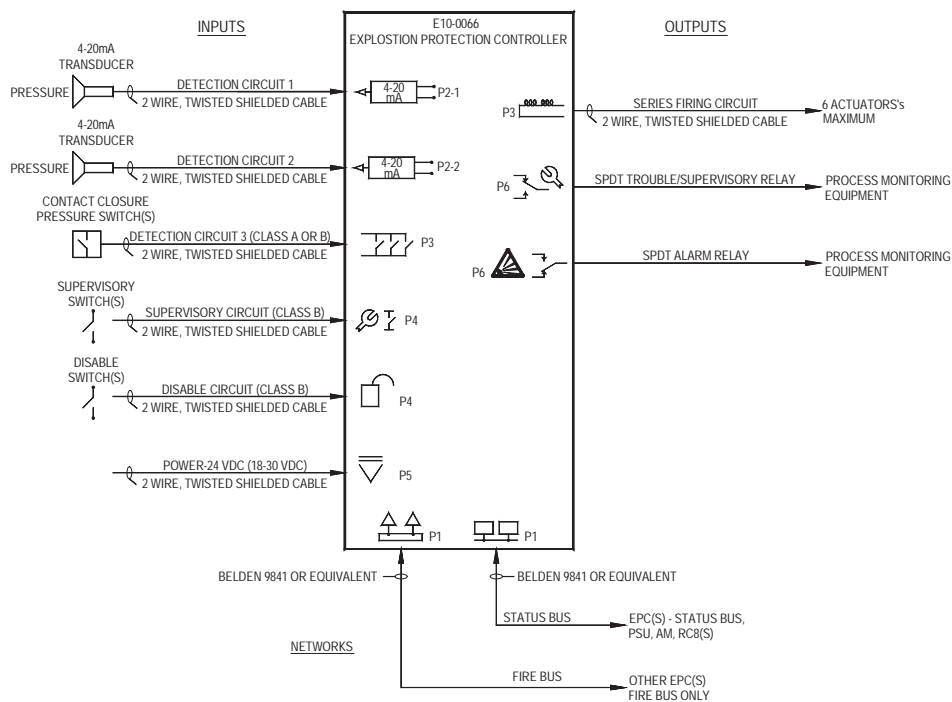
Fike P/N E10-0066

APPROVALS

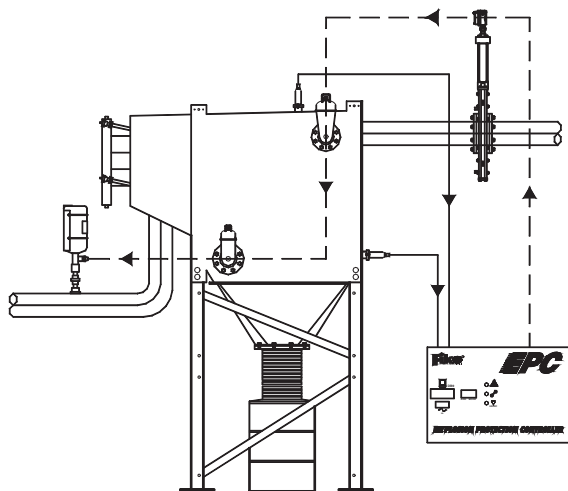
- Factory Mutual Approved
- CE marked (EMC - LVD tested and approved)
- ATEX Approved 
- ATEX Approved  D/G II 2/1 D/G when installed with Fike's optional enclosure
- CSA Approval Pending

* Dimensions are nominal

Wiring Diagram

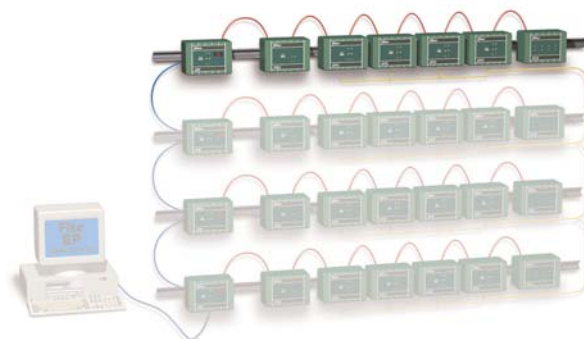


Schematic Wiring Overview: Single Zone Application (Dust Collector)



NOTE: Components not to scale

Example of an Effective EPACO™ Network Configuration



Fike
CORPORATION

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