

# HAZARDOUS LOCATION DOOR SOLUTIONS



Spark and Arc Explosion Prevention

*the lock behind the system*

**SDC**  
Security Door Controls

# EXPLOSION PREVENTION

SDC's Explosion Prevention Solution is a series of door access and egress components all specially designed and explosion proof rated to National Fire Protection Association (NFPA) standards.

They provide safety, security and risk management in potentially hazardous location plants and facilities for the following industries:

- Agriculture
- Beverage
- Chemical
- Energy & Utilities
- Food Processing
- Manufacturing
- Mining
- Nuclear Power
- Oil & Gas Refining
- Pharmaceutical

## What does "Explosion Proof" mean?

Explosion proof access control products are specifically designed for applications where flammable vapors are cause for concern by eliminating the sparks or arc from igniting airborne combustibles.

To meet the criteria for the explosion proof rating, each component enclosure must be able to contain any explosion originating within its housing and prevent sparks from within its housing from igniting vapors, gases, dust, or fibers in the air surrounding it. Additionally, these explosion proof products also meet the temperature requirements of the specific application in which they are to be installed, per National Electric Code (NEC®) standards. Each component is labeled on its nameplate with the distinct classification in which it has been tested and approved for installation.

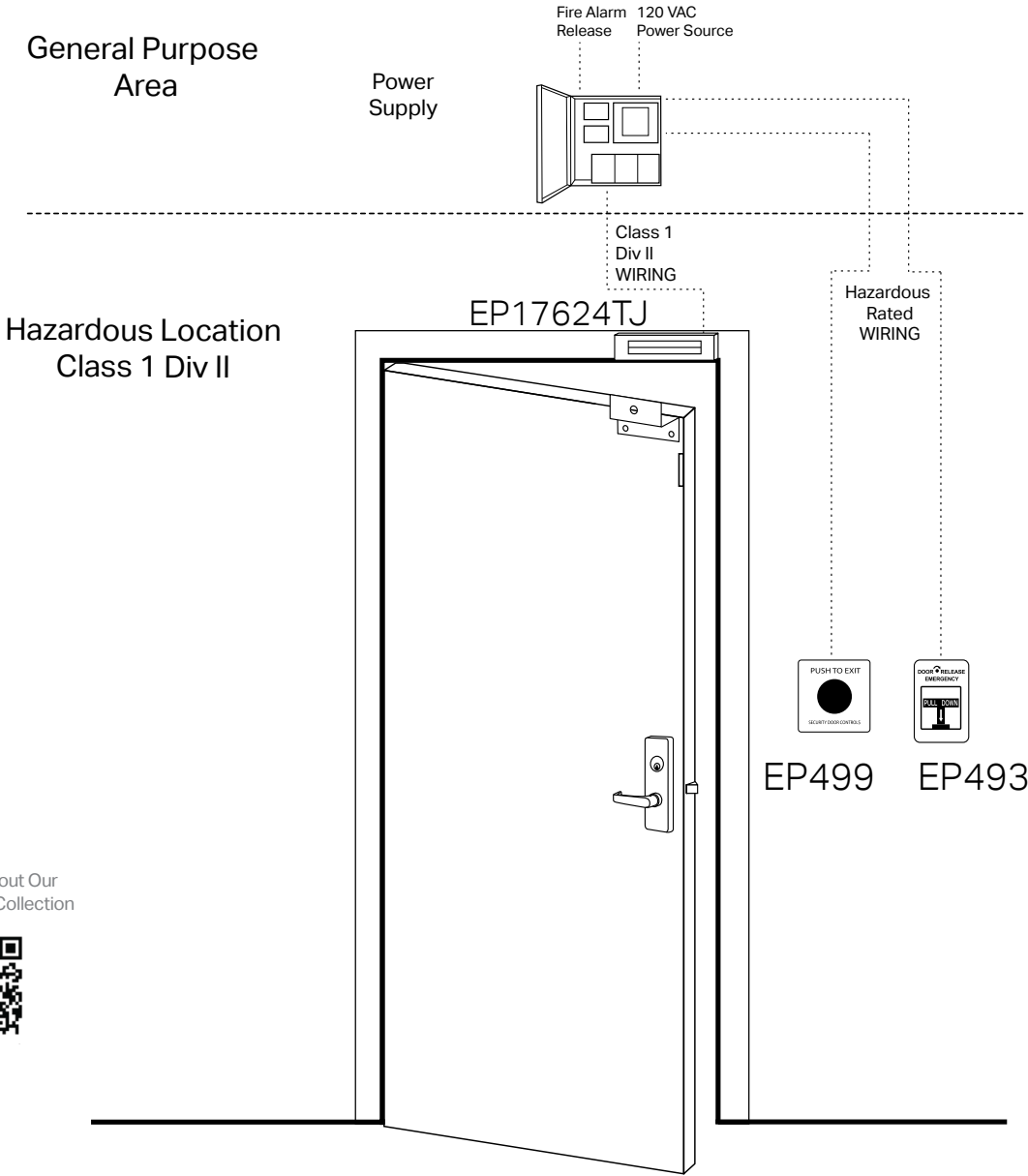


AGRICULTURE



BEVERAGE

# EXPLOSION PREVENTION



Learn More About Our  
Explosion Proof Collection



CHEMICAL



ENERGY & UTILITIES

# ELECTROMAGNETIC LOCKS

## EP17624

### Explosion Proof Magnetic Locks

Specifically designed for applications where flammable vapors are cause for concern: clean rooms, chemical plants, or refinery environments by eliminating the sparks or arc in the magnetic lock.

- 600 lbs Holding Force
- 250 mA Current Draw @ 24VDC



## HAZARDOUS LOCATION LABELS AND REQUIREMENTS

UL listed for use in hazardous locations class 1, division 2.

This unit is intended to be used in the following atmospheres: Acetone, Ammonium Hydroxide, ATSM fuel C, Benzene, Methyl-Ethylketone, Diethyl-Ether, 2-Nitropropane, Ethyl-Acetate, Furfural, Normal Hexane, Methyl Alcohol.

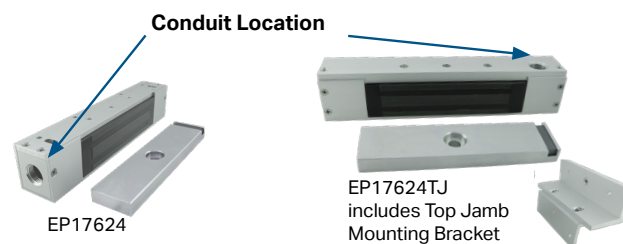
Operating temperature for the magnetic lock will not exceed 185° F (85° C). Maximum ambient temperature is not to exceed 104° F (40° C). For supply connections, use a suitable wire with a minimum insulation temperature rating of 167° F (75° C).

This unit must be connected to a NEC (National Electric Code, NFPA 70) Class 2 Supply Circuit rated for 24 VDC with a minimum current output of 0.5 amperes and output power of 12 watts. A UL Listed SDC 600 Series Power Controller is recommended.

## STANDARD FEATURES

- Hazardous location design
- Explosion proof epoxy sealed
- Corrosion resistant
- Conduit chamber with terminal block
- Interlocking quick mount assembly
- Voltage and current spike protection
- Door position status (DPS)

## MODELS



**EP17624** Single Explosion Proof Magnetic Lock, Side Conduit, 600lbs

**EP17624TJ** Single Explosion Proof Magnetic Lock, Top Conduit, 600lbs



FOOD PROCESSING



MANUFACTURING

# MUSHROOM BUTTON EXIT SWITCHES

## EP499

### Explosion Proof Exit Switches

SDC's EP499 series explosion proof mushroom button exit switches are specifically designed for applications where flammable vapors are cause for concern: clean rooms, chemical plants, or refinery environments by eliminating the sparks or arc in the exit switch.

- Rating - DC 60V 5A DC-13



## HAZARDOUS LOCATION LABELS AND REQUIREMENTS

UL listed for use in hazardous and corrosive environments:

Class I, Zone 1, AEx de IIC T6...T4 Gb / Ex de IIC T6...T4 Gb X

Zone 21, AEx tb IIC T85°C...T135°C Db IP66 / Ex tb IIC T85°C...T135°C Db IP66 X

Class I, Division 2, Groups A, B, C, D

Class II, Division 2, Groups E, F, G

Class III UL50, 50E, 508, UL60079-0, -1, -7, -31

Type 3, 4, 4X, 12, 13

This unit is intended to be used in the following atmospheres: acetone, ammonium hydroxide, ATSM fuel C, benzene, methyl-ethylketone, diethyl-ether, 2-nitropropane, ethyl-acetate, furfural, normal hexane, methyl alcohol.

Maximum ambient temperature is not to exceed 150° F (60° C). For supply connections, use a suitable wire with a minimum insulation temperature rating of 167° F (75° C).

## STANDARD FEATURES

- Hazardous location design
- Impact resistant non-metallic antistatic material
- Corrosion proof with F1 UV protection
- 1 1/2" mushroom button
- Silicone gasket on enclosure and actuator
- Explosion protected contact blocks
- Clearance for 3/4" bottom feed NPT fitting

## MODELS

**EP499** Explosion Proof Exit Switch, Green Button, Momentary (MO), DPST

**EP499-R** Explosion Proof Exit Switch, Red Button, Momentary (MO), DPST



MINING



NUCLEAR POWER

# EMERGENCY RELEASE STATIONS

## EP493

### Explosion Proof Emergency Pull Stations

SDC's EP493 series explosion proof emergency release stations are specifically designed for applications where flammable vapors are cause for concern: clean rooms, chemical plants, or refinery environments by eliminating the sparks or arc in the emergency release stations.

- Rating - 3 Amp @ 30 VDC Resistive



## HAZARDOUS LOCATION LABELS AND REQUIREMENTS

UL listed for use in hazardous locations:

Class I, Division 1, Group B, C, D;

Class II, Division 1, Group E, F, G;

Class III;

Type 4X outdoor

This unit is intended to be used in the following atmospheres: acetone, ammonium hydroxide, ATSM fuel C, benzene, methyl-ethylketone, diethyl-ether, 2-nitropropane, ethyl-acetate, furfural, normal hexane, methyl alcohol.

Maximum ambient temperature is not to exceed 150° F (66° C). For supply connections, use a suitable wire with a minimum insulation temperature rating of 167° F (75° C).

## STANDARD FEATURES

- Hazardous location design
- High strength metal die-cast alloy
- Terminal block connection
- Blue housing eliminates confusion with red fire alarm stations
- Easy to read activation instruction
- Initiates release of individual door or all doors on same circuit
- Main contact for lock release
- Auxiliary contact for remote monitoring, CCTV or alarm activation
- Explosion protected contact blocks
- Clearance for 3/4" top/bottom feed NPT fitting
- Two replacement glass pieces included

## MODELS

**EP493** Explosion Proof Emergency Pull Station



OIL & GAS REFINING



PHARMACEUTICAL



# Need Help Building Your Solution?

Use **DoorSnap™** in the free **SDC App** for your door retrofit projects



## SDC Solution Experts Will Craft Personalized Solutions For You!

- 1 Open the SDC App and select DoorSnap™
- 2 Take a photos of your door opening
- 3 Submit photos of your door opening
- 4 Recieve a complete access and egress electrified solution

Download the FREE SDCSecurity App now!

Our award-winning app includes labor-saving DoorSnap™ functionality. SDC will recommend a cost effective solution with product information links to retrofit the opening for access & egress control locking hardware.



