

Interruptor de Presión / 4-20 PSI / Diferencial 3 PSI / Doble Relevador SPDT 10A / UL 4X NEMA 4 / Conexión 1/2 NPT

SKU: EPS-102 Marca: SAFE SIGNAL Categoría: Detectores de Flujo y Presión

Garantía: 3 años

$4,859.00

Precios con IVA incluido

DESCRIPCIÓN

El interruptor de supervisión por presión EPS102 está diseñado para aplicaciones industriales que requieren monitoreo y control preciso en rangos bajos de presión. Cuenta con una rueda de ajuste externa que permite la calibración sin herramientas, facilitando la puesta en marcha y el mantenimiento en campo. Su diafragma reforzado soporta picos de presión superiores al rango nominal, protegiendo el equipo contra daños por golpes hidráulicos. El encapsulado UL 4X y NEMA 4 garantiza la protección contra polvo y agua, permitiendo su instalación en ambientes hostiles. Además, su doble relevador SPDT ofrece versatilidad para manejar cargas tanto en corriente alterna como directa.

Características Generales
Rueda de ajuste de sensibilidad sin herramientas especiales
Diafragma reforzado para resistir picos de presión
Rango de presión ajustable de 4 a 20 PSI con diferencial de aproximadamente 3 PSI
Doble relevador en forma C (SPDT): 10.0 A, 1/2 HP @ 125/250 VAC; 2.5 A @ 6/12/24 VDC
Encapsulamiento UL 4X y clasificación NEMA 4
Rango de temperatura de funcionamiento: -40 °C a 71 °C
Conexión de presión en nylon reforzado con vidrio, macho NPT de 1/2'

Desempeño
Rango de presión ajustable: 4 a 20 PSI
Diferencial: aproximadamente 3 PSI
Presión máxima de operación: 300 PSI
Temperatura de operación: -40 °C a 71 °C

Físicas y Eléctricas
Encapsulamiento: UL 4X, NEMA 4
Dimensiones: 130 mm x 84 mm x 108 mm
Peso: 1.2 lbs (0.54 kg)
Contactos eléctricos: EPS1
Doble relevador SPDT: 10.0 A, 1/2 HP @ 125/250 VAC; 2.5 A @ 6/12/24 VDC
Conexión de presión: nylon reforzado con vidrio, macho NPT de 1/2'

Contenido del Paquete
Unidad principal

ESPECIFICACIONES

Característica 1	**Rueda de ajuste sin herramientas para calibración rápida**
Característica 2	**Diafragma reforzado para picos de presión hasta 300 PSI**
Característica 3	**Doble contacto SPDT compatible con corriente AC y DC**
Característica 4	**Dimensiones compactas de 130 x 84 x 108 mm**
Característica 5	**Operación confiable entre -40°C y 71°C**
Característica 6	**Puerto de presión en nylon reforzado con vidrio**

MEMORIA TÉCNICA · EPS-102

Número de parte de esta ficha: EPS-102. La información corresponde a esta variante.

Agency Listings
EPS10-1 and EPS10-2
Alarm Pressure
Switches
Safe Signal EPS10 Series switches are designed for use
in wet, dry, deluge, and pre-action automatic sprinkler
systems to indicate a discharge from a sprinkler.
Features
- Sensitivity adjustment wheel, no special tools required
- Reinforced diaphragm resists pressure spikes
- Two conduit entrances
- Both one- and two-switch models available
The EPS10-1 has a single SPDT switch while the EPS10-2 model
contains two SPDT switches. The EPS10 Series features field
adjustable pressure sensitivity to provide an alarm response between
4 and 20 psi. It is factory set to respond at 4 – 8 psi on rising or
falling pressure. The pressure adjustment wheel requires no special
tools and does not affect switch synchronization on the EPS10-2. The
EPS10 Series switches are NEMA 4 rated.
Specifications, EPS10-1 and EPS10-2
Architectural/Engineering Specifications EPS10-1 (SPDT), EPS10-2 (2/SPDT)
Model shall be an EPS10-1 or EPS10-2 pressure type waterflow switch as manufactured by Safe Signal. They shall be installed on the sprinkler system with connection as shown on the drawings and/or as specified herein. Pressure switches shall be of the bellows-activated type. Switches shall have a maximum service pressure rating of 300 psi and shall be factory adjusted to operate at a pressure of 4 – 8 psi. There shall be one (1) or two (2) SPDT contacts rated at 10.0 Amp @ 125/250 VAC and 2.5 Amp @ 6/12/24 VDC. The contractor shall furnish and install, where indicated on the plans, pressure switches according to appropriate NFPA standards. Switches shall be provided with a ½" NPT male pressure connection to be connected to the alarm check valve of a "wet" sprinkler system, into the intermediate chamber of a "dry" system, or to a pre-action or deluge valve. They shall be activated by any flow of water equal to or in excess of the discharge from one sprinkler head. Switches shall provide 1 knockout type and 1 open hole for ½" conduit fitting attachment and a ground screw provision for electrical grounding. The switch enclosure shall be weatherproof and carry a UL 4x/NEMA 4 rating when used with proper electrical fittings and conduit. The cover shall incorporate tamper-resistant screws. The unit shall be listed by Underwriters Laboratories, Inc. and approved by Factory Mutual.

- Phone: 844-597-8655

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Product specifications subject to change without notice. Visit safesignalsprinkler.com for current product information, including the latest version of this data sheet.

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Ordering Information

Part No.	Description
EPS10-1	Alarm Waterflow Pressure Switch, One SPDT, 4–20 PSI
EPS10-2	Alarm Waterflow Pressure Switch, Two SPDT, 4–20 PSI
EPSA10-1	ULC/Canadian Version
EPSA10-2	ULC/Canadian Version

Replacement Parts

S07-66-02	Replacement Tamper Screws for Cover of EPS
WFDW	Replacement Tamper Proof Wrench for Cover of EPS
546-8000	Cover Tamper Switch for EPS Series

Typical Sprinkler Applications



VALVE
RETARD
WATER
MOTOR
GONG
EPS10
ALARM
CHECK
VALVE
OS & Y
VALVE
WATER
BY-PASS
VALVE
LOCAL ALARM
SHUT OFF
VALVE
RETARD
WATER
MOTOR
GONG
EPS10
DRY
PIPE
VALVE
OS & Y
VALVE
WATER
BY-PASS
VALVE
LOCAL ALARM
SHUT OFF
VALVE
WATER
MOTOR
GONG
CHECK
VALVE
EPS10
WET SYSTEM
WET SYSTEM
DRY SYSTEM
WIRE TO ALARM
INDICATING CIRCUIT
OF FIRE ALARM
CONTROL PANEL
WIRE TO
ALARM
INDICATING
CIRCUIT
OF FIRE
ALARM
CONTROL
PANEL
WIRE TO
ALARM
INDICATING
CIRCUIT
OF FIRE ALARM
CONTROL PANEL
TO
SPRINKLER
SYSTEM
TO
SPRINKLER
SYSTEM
TO
SPRINKLER
SYSTEM
ALARM
CHECK
VALVE
OS & Y
VALVE
WATER
BY-PASS
VALVE
LOCAL ALARM
SHUT OFF
VALVE
RETARD
WATER
MOTOR
GONG
EPS10
ALARM
CHECK
VALVE
OS & Y
VALVE
WATER
BY-PASS
VALVE
LOCAL ALARM
SHUT OFF
VALVE
RETARD
WATER
MOTOR
GONG
EPS10
DRY
PIPE
VALVE
OS & Y
VALVE
WATER
BY-PASS


VALVE
LOCAL ALARM
SHUT OFF
VALVE
WATER
MOTOR
GONG
CHECK
VALVE
EPS10
WET SYSTEM
WET SYSTEM
DRY SYSTEM
WIRE TO ALARM
INDICATING CIRCUIT
OF FIRE ALARM
CONTROL PANEL
WIRE TO
ALARM
INDICATING
CIRCUIT
OF FIRE
ALARM
CONTROL
PANEL
WIRE TO
ALARM
INDICATING
CIRCUIT
OF FIRE ALARM
CONTROL PANEL
TO
SPRINKLER
SYSTEM
TO
SPRINKLER
SYSTEM
TO
SPRINKLER
SYSTEM
Pressure Switch Basic Dimensions Electrical Connections
HEX
ADJUSTMENT
SCREW
MAIN ADJUSTMENT
WHEEL
4
1
/4″
5
1
/8″
LOCKING
SCREW
1
/2″ NPT
C OM
AB
GROUND
SCREW
(GREEN)
SWITCH #2
MODEL EPS10-1
A
COM
B
SWITCH AT 0 PSI
SWITCH AT 4-8 PSI (HIGH TRIP PT.)
B
COM
A
SWITCH 1
MODEL EPS10-2
SWITCHES AT 0 PSI
B
COM
A
B
COM
A
A
COM
B
A
COM
B
BOTH SWITCHES ACTIVATE SIMULTANEOUSLY
SW1S W2
SW1S W2
SWITCHES AT 4-8 PSI (HIGH TRIP PT.)
MODEL EPS10-1
A
COM
B
SWITCH AT 0 PSI
SWITCH AT 4-8 PSI (HIGH TRIP PT.)
B
COM
A
SWITCH 1
MODEL EPS10-2
SWITCHES AT 0 PSI
B
COM
A
B
COM
A

A
COM
B
A
COM
B
BOTH SWITCHES ACTIVATE SIMULTANEOUSLY
SW1S W2
SW1S W2
SWITCHES AT 4-8 PSI (HIGH TRIP PT.)
Specifications, EPS10-1 and EPS10-2 (continued)
Physical/Operating Specifications
Maximum Operating
Pressure
300 psi Operating Temperature
Range
Indoor or outdoor use:
–40°F to 160°F (–40°C to 71°C)
Maximum Adjustment
Pressure Range
4 to 20 psi Cover Tamper Switch UL Models: Optional P/N 546-8000
ULC Models: Factory Installed
Differential Approximately 3 psi throughout rangeEnclosure Rated UL 4x, NEMA 4 for indoor or outdoor use
Factory Setting Operates at rising pressure 4 to 8 psiShipping Weight 1.2 lbs. (.54 Kg)
Switch Contact
Ratings
EPS10-1: One set SPDT (Form C)
EPS10-2: Two sets SPDT (Form C)
10.0 A, ½ HP @ 125/250 VAC
2.5 A @ 6/12/24 VDC
Service Use Automatic Sprinkler: NFPA 13
One or Two Family Dwelling: NFPA 13D
Residential Occupancies up to 4 Stories:
NFPA 13R
National Fire Alarm Code: NFPA 72
Pressure Connection½″ NPT male glass reinforced nylonWarranty 3 years
Dimensions 5.12″ H × 3.325″ W × 4.250″ L
(13.0 cm × 8.4 cm × 10.8 cm)