

Explosion Proof & General Purpose Switch Kits

EPSK Description

Model EPSK-1 and EPSK-2 explosion proof switch kits are loose accessories that provide electrical contacts for audible or visual alarm devices that signal a loss of protected enclosure pressure. Model EPSK-1 is calibrated to alarm at 0.15" for Class I applications. Model EPSK-2 is calibrated to 0.50" for Class II applications. The kits consist of a pre-fitted explosion proof differential pressure switch, an enclosure pressure reference bulkhead union w/vent and mounting bolts for the switch. The switches feature an atmospheric reference vent in the low port and an enclosure pressure reference tube fitting in the high port. The switches are, therefore, intended to mount outside the protected enclosure and are suitable for hazardous (classified) outdoor locations. The installer must first mount the pressure switch and bulkhead union, then install tubing between the switch's enclosure pressure reference tube fitting and the bulkhead union. Wiring must be installed with a seal and conduit fittings that are suitable for the location. Alarm circuit power may be derived from the protected enclosure power source or an intrinsically safe alarm signal source. However, all associated alarm devices must be protected by suitable means (explosion proof, purged or intrinsically safe).

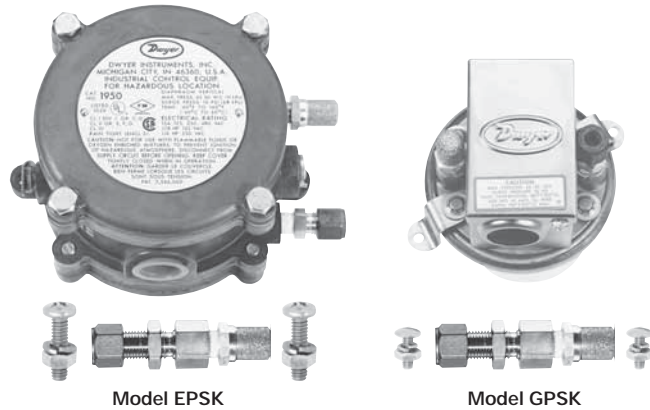
GPSK Description

Model GPSK-1 and GPSK-2 general purpose switch kits are similar to Model EPSK-1 and EPSK-2 above, but are not rated for hazardous outdoor locations and are intended for mounting inside the protected enclosure. Therefore, the switch connections are reversed so that the high port references enclosure pressure with a vent, and the low port references atmospheric pressure with tubing to the bulkhead union. The switches must be wired with an intrinsically safe alarm signal circuit, or be considered as protected devices that can be deenergized along with all similar devices before the protected enclosure is opened. Alarm devices may be protected by other suitable means (such as an explosion proof beacon or horn, mounted externally, with a conduit seal).

Material Specifications

	Model EPSK
Body:	Anodized Cast Alum.
Diaphragm:	Fluorosilicone Rubber
Calibration Spring:	Stainless Steel
Fasteners & Fittings:	316 SS
	Model GPSK
Body:	Zinc Plated Steel
Diaphragm:	Molded Silicone Rubber
Diaphragm Plate:	Aluminum
Calibration Spring:	Stainless Steel
Fasteners & Fittings:	316 SS

Model EPSK & GPSK



EPSK Specifications

CALIBRATION & OPERATING RANGE

Model EPSK-1:	(Decr) 0.15" ± 0.02"
Model EPSK-1A:	(Decr) 0.15" ± 0.02"
Model EPSK-2:	(Decr) 0.50" ± 0.02"

GENERAL INFORMATION

Switch Dimensions:	3.50" H x 4.25" Diam.
Shipping Weight:	5 lb
Temp. Range:	-40°F to +140°F
Maximum Surge Pressure:	10 psi
Reference Tube Fitting Size:	1/4"
Switch Conduit Port Size:	1/2" FPT
Switch Contact Type:	Form C
Switch Contact Rating:	
WPS Style:	120 VAC, 15 A
WPSA Style:	* 120 VAC, 10 A, 28 - 125 VDC
U.L. Listing	
Model EPSK-1:	Cl. I & II, Div. 1, Gr. C-G
Model EPSK-1A:	Cl. I & II, Div. 1, Gr. A-G
Installation Position:	Diaphragm Vertical

* Supply voltages 24 VDC and 240 VAC available upon request.

GPSK Specifications

CALIBRATION & OPERATING RANGE

Model GPSK-1:	(Decr) 0.15" ± 0.02"
Operating Range (for Class I applications):	0.07" - 0.15"
Model GPSK-2:	(Decr) 0.50" ± 0.02"
Operating Range (for Class II applications):	0.40" - 1.60"

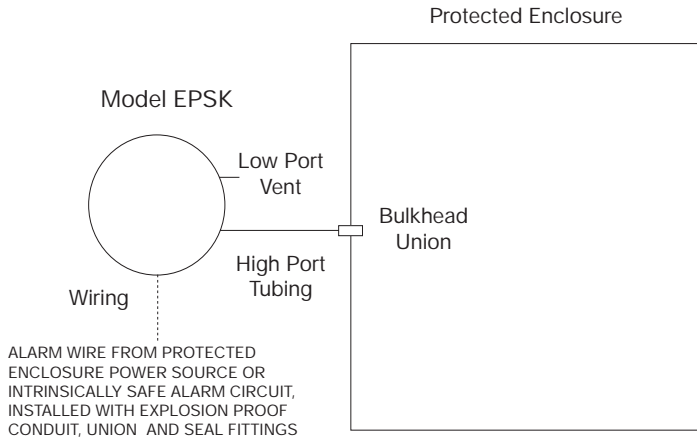
GENERAL INFORMATION

Switch Dimensions:	2.50" H x 3.50" Diam.
Shipping Weight:	3 lb
Temp. Range:	-30°F to +180°F
Maximum Surge Pressure:	10 psi
Reference Tube Fitting Size:	1/4"
Switch Conduit Port Size:	1/2" Knockout
Switch Contact Type:	Form C
Switch Contact Rating:	120 VAC, 15 A
U.L. Listing:	Gen. Purpose / Type 1
Installation Position:	Diaphragm Vertical

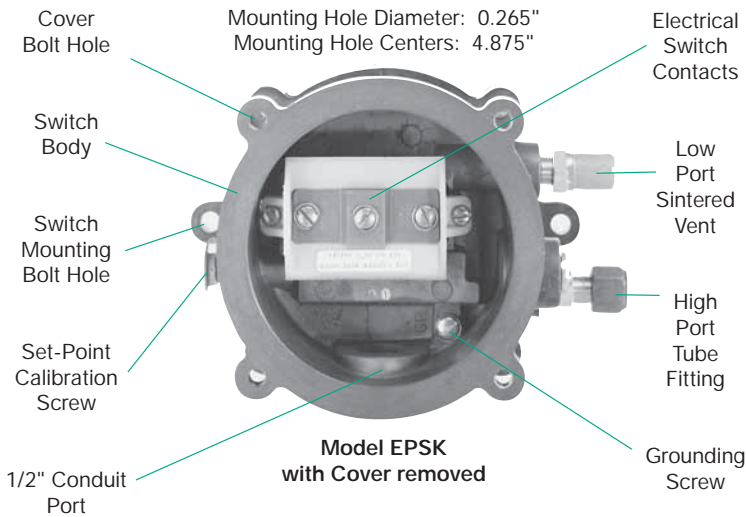
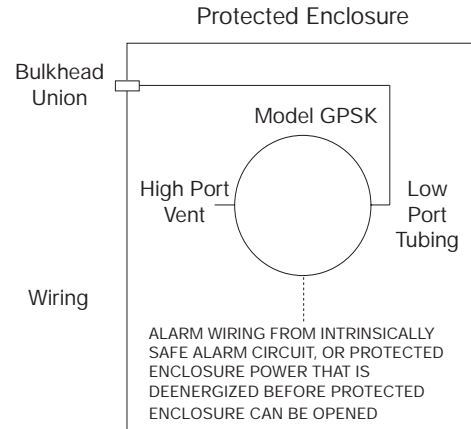
System Accessories

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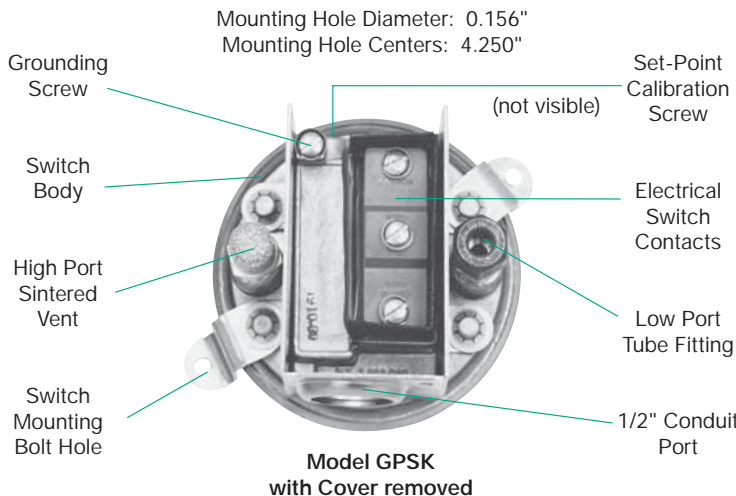
Typical EPSK Installation



Typical GPSK Installation

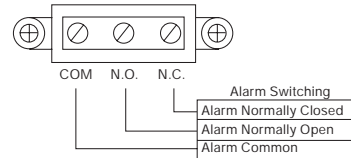


Bulkhead Union Mounting Hole: 0.4531" (29/64")
EPSK Screws: 1/4-20 x 3/4" GPSK Screws: 8/32 x 1/2"

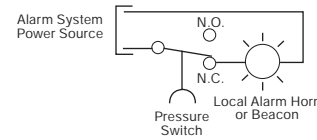


Terminal Block Connections

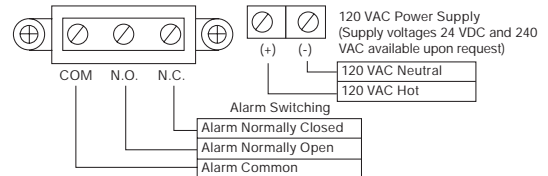
GPSK, EPSK & WPS Terminal Block Connections



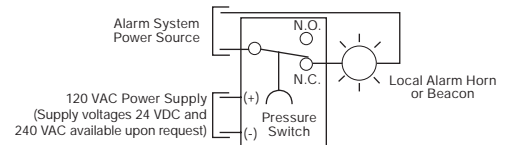
GPSK, EPSK & WPS "Normally Closed" Wiring Configuration



EPSK-1A & WPSA Terminal Block Connections



EPSK-1A & WPSA "Normally Closed" Wiring Configuration



Important Note

MODEL EPSK AND GPSK KITS FUNCTION IN CONJUNCTION WITH P+F LPS STYLE TYPE Y & Z ENCLOSURE PROTECTION SYSTEMS, TO PROVIDE AN ALARM TO INDICATE LOSS OF PROTECTED ENCLOSURE PRESSURE, IN ACCORDANCE WITH THE NEC - NFPA 70, ARTICLE 500, NFPA 496 AND ISA 12.4.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

WARRANTY & LIABILITY POLICIES AVAILABLE UPON REQUEST.