

Type Y & Z purge and pressurization system

BEBCO EPS®



11

- NFPA 70, NFPA 496, ISA 12.4 standards
- Optional alarm output indicates air lock failure
- Type Y system certified for Class I and Class II, Division 1 to Division 2
- Type Z system certified for Class I and Class II, Division 2 to nonhazardous area
- Class I enclosure volume up to 2 ft³
- Class II enclosure volume up to 10 ft³

11 Series

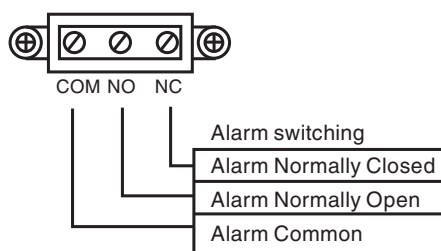


Function

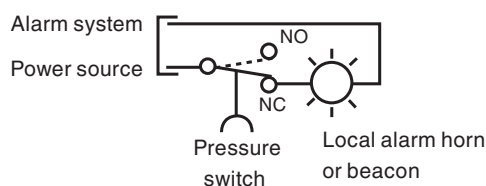
The model 11 is an enclosure pressurization or purging system that operates on a supply of compressed instrument air or inert gas. The system regulates and monitors pressure within sealed (protected) enclosure(s), in order to prevent combustible dust accumulation or remove and prevent flammable gas or vapor accumulations. In Class II areas, the system maintains a "safe" (1.0") pressure. In Class I areas, the system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. These processes reduce the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

Connection

Terminal block connections



Wiring configuration



Technical Data

General specifications

Series	11
System	Type Y Purge , Type Z Purge

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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PEPPERL+FUCHS

Technical Data

Hazardous environment	gas
Electrical specifications	
Connection	Terminal blocks
Output	
Output I	-WPS-
Output type	Switch contacts
Contact loading	120 VAC @ 15 A
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Pressure requirement	5 - 120 psi (With EPV-1 vent. Systems installed without vent must be equipped with redundant regulator set to 5 psi max.)
Safe pressure	Setpoint: Class I: 0.25" (6.35 mm); Class II: 1.0" (25.4 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l/hr)
Ambient conditions	
Ambient temperature	4.4 ... 49 °C (39.9 ... 120.2 °F)
Mechanical specifications	
Connection type	System supply fitting: 1/4" tube fitting Enclosure supply fitting: 1/4" tube fitting Enclosure reference fitting: 1/4" tube fitting Switch conduit port size: 1/2" FPT
Material	Regulator body: zinc w/enamel finish Regulator handle: polycarbonate Enclosure pressure gauge: ABS plastic Tube fittings: 316 ss forged body Tubing: 316 ss 1/4" .035 welded System nameplate: silk screened Lexan® &ss Fastener hardware: alum. &stainless steel Mounting plate: 316 14 ga #3 brush ss EXP pressure switch body: anodized cast aluminum Enclosure warning nameplate: silk screened ss
Mass	11-LPS-* 2.3 kg (5 lb) 11-WPS-* 4.5 kg (10 lb)
International approvals	
FM approval	Type Y LPS: Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups F, G WPS: Class I, Division 1, Groups C, D; Class II, Division 1, Groups F, G Type Z LPS: Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F, G WPS: Class I, Division 2, Groups C, D; Class II, Division 2, Groups F, G
UL approval	
cULus	Type Y LPS: Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups F, G WPS: Class I, Division 1, Groups C, D; Class II, Division 1, Groups F, G Type Z LPS: Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F, G WPS: Class I, Division 2, Groups C, D; Class II, Division 2, Groups F, G

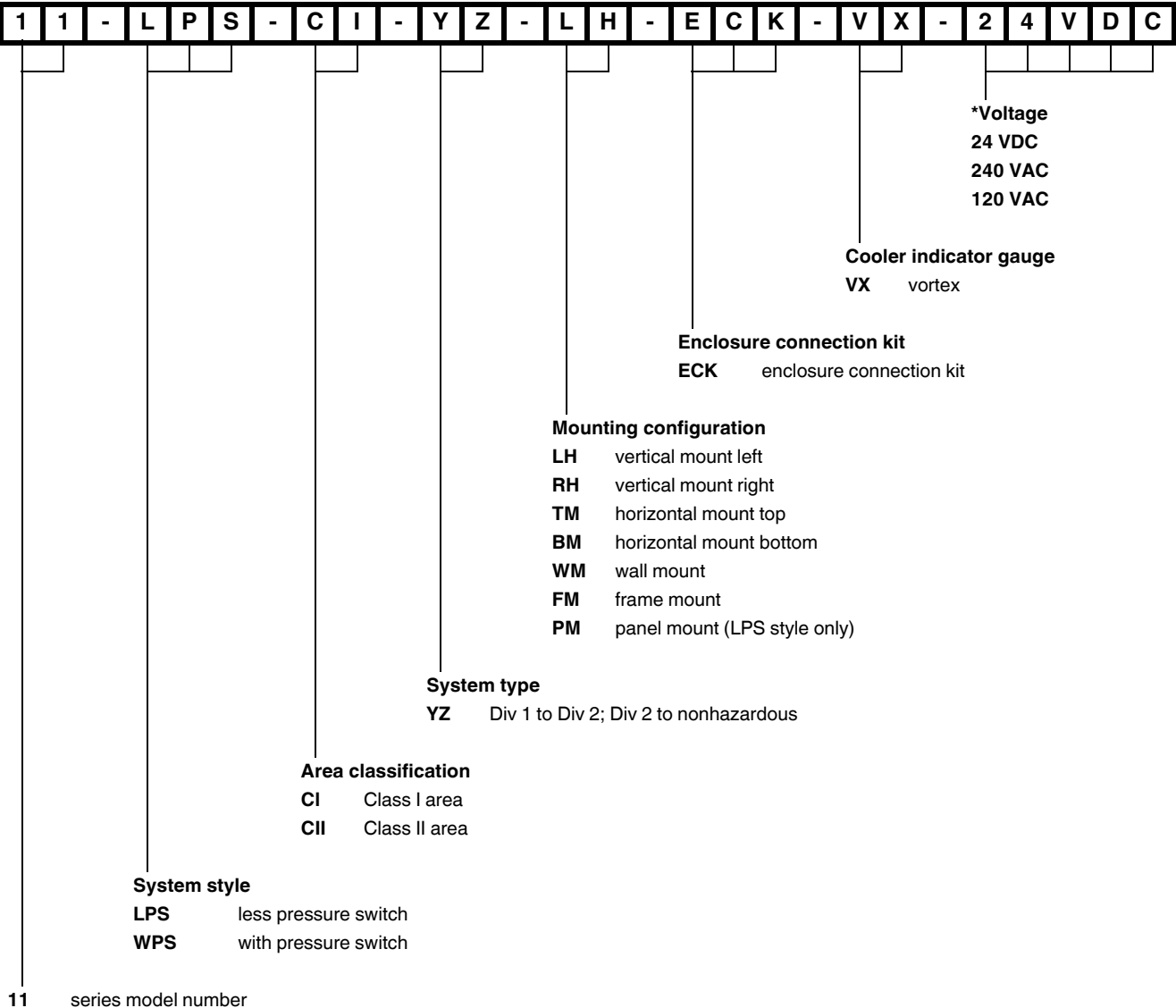
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Assembly



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Type Code

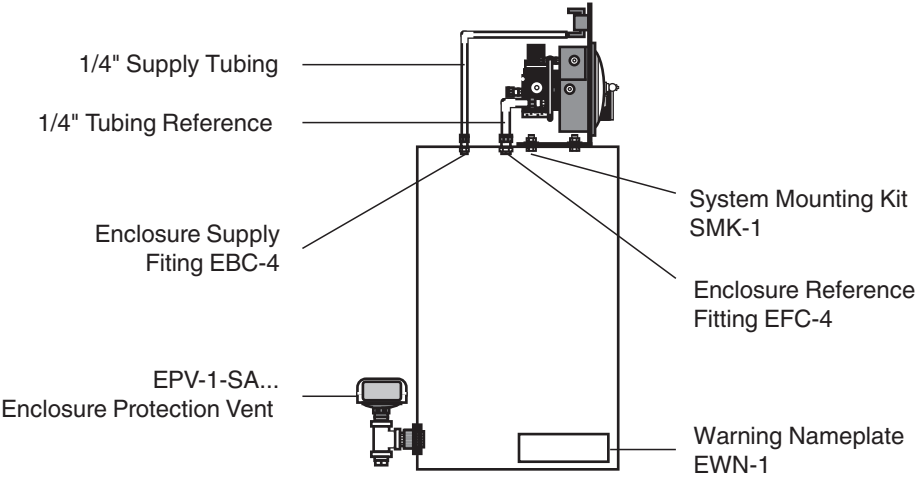


* only for WPS option

Additional Information

Assembly

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Dimensions

Overall system dimensions			
LPS / WPS	LH - left hand	RH - right hand	TM - top mount
Height	6.25 / 10.75	6.25 / 10.75	6.25 / 8.5
Width	6 / 7.5	6 / 7.5	7.5 / 13.375
Depth	5.5 / 7.25	5.5 / 7.25	5.5 / 7.25
LPS / WPS	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	6.25 / 8.5	6.25 / 10.75	8.25 / 12.75
Width	7.5 / 13.375	6 / 7.5	8 / 9.5
Depth	5.5 / 7.25	5.5 / 7.25	4.5 / 7
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 7.25 h x 7 w WPS - 11.75 h x 8.5 w. Height & Width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.			

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System Accessories

Factory installed fittings	
Part	Description
ECK-11	Enclosure Connection Kit
Connection fittings	
Part	Description
EFC-4	1/4" flush connector
EBC-4	1/4" bulkhead connector
EPC-10	1/2" pipe connector
Additional items	
Part	Description
ILF-4	1/4" In-Line Filter
SMK-1	Surface Mounting Kit (-LH-, -RH-, -TM-, -BM-, -WM- models)
SMK-4	Surface Mounting Kit (-FM-, -PM- models)
SMK-6	Surface Mounting Kit (-FM-, -PM- models)
PMK-1	Pipe Mounting Kit
GCK	Gauge Conversion Kit
EPSK-1	Explosion Proof Switch Kit (Class I areas)
EPSK-1A	Explosion Proof Switch Kit (Class I areas)
EPSK-2	Explosion Proof Switch Kit (Class II areas)
EPSK-2A	Explosion Proof Switch Kit (Class II areas)
GPSK-1	General-purpose Switch Kit (Class I areas)
GPSK-2	General-purpose Switch Kit (Class II areas)
RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	"L" style conduit fitting kit
TCK	"T" style conduit fitting kit
Hex key regulator handles	
Part	Description
TR-10G	Tamper proof regulator with gauge
Warning nameplates	
Part	Description
EWN-1	Class I enclosure warning
EWN-2	Class II enclosure warning
ETW	Enclosure temperature warning
Installation & Operation Manual	
Part	Description
DOCT-1359	Installation and Operation Manual