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Find the *Wasco SV124-31W3A/7928* at our website: ***Click HERE***

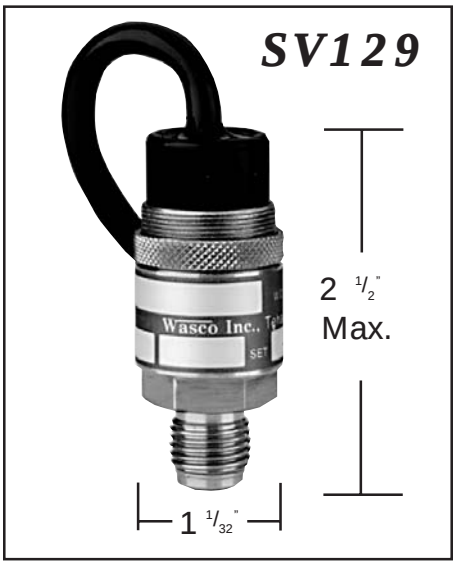
SV120 SERIES

SUPER PURITY VACUUM SWITCH

1.6 - 29.5 in Hg RANGE

Features:

- **All Stainless Steel (wetted) Sensor**
- **All Welded Construction**
- **Leak tested and Certified to 1X10^{-9} cc per sec. Helium**
- **Finely Finished (wetted) Surfaces to Reduce Particulates**



A rugged and reliable miniature switch featuring an all welded high purity sensor system.

Specifications:

NON-WETTED MATERIALS

Lock ring–steel, zinc chromate finish.
Electric switch housing–steel, zinc chromate finish.
Plastic parts-nylon or PVC.

WETTED MATERIALS

Body–316 series stainless steel.
Capsule—17-7PH, proof = 125% of sensor capacity.
Fitting—316 series stainless steel.

VACUUM SWITCH ADJUSTMENT (if field adjustable)

This model may be adjusted by loosening the lock ring and turning the electric switch housing clockwise to raise the set point, counter clockwise to lower the set point. Holding the electric switch housing in position, tighten the lock ring and check the set point. Repeat above if necessary.

SETTING OPTIONS

Switches are normally supplied field adjustable, may be ordered factory set, or factory set and locked.

TEMPERATURE RANGE

-65º F to +225º F, a slight change up to 2% in the set point may occur below -10º F and above +125º F.

CYCLE RATE-SENSOR AND ELECTRICAL SWITCH

Not to exceed 22 CPM (cycles per minute).

WEIGHT

Approx. 3.5 ounces (Standard 'W3' interface).

PRESSURE CONNECTION

9/16-18 UNF-VCR Style male standard.

NOTE: Vacuum switches may be damaged if exposed to positive pressure.

SV124 = 1/4" NPT MALE
SV127 = 7/16"-20 UNF MALE
SV128 = 1/8" NPT MALE
SV129 = 9/16"-18 UNF MALE

SV120 Series Performance Table. All values given in inches Hg. vacuum.

MAX. SYSTEM PRESSURE	SET POINT RANGE	SET POINT TOLERANCE	RESET BAND	PART NUMBER 'W3' INTERFACE* 1 AMP	5 AMP	7 AMP
29.9	1.6-29.5	±1.2	1.4-4.6	SV129-31W3	SV129-35W3	SV129-37W3
29.9	6.0-29.5	±4.0	2.6-7.6	SV129-51W3	SV129-55W3	SV129-57W3

* See page 29 for Standard & Optional Electrical Interfaces and electrical switch characteristics.

Wasco INC.
3130 Skyway Dr., #701, Santa Maria, CA 93455 USA
www.wascoinc.com e-mail: sales@wascoinc.com
(805) 739-2747 • FAX (805) 739-2751

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ENCLOSURES

This enclosure series is factory installed only, and is usually installed on switches that are **factory set and locked**. This will assure protection to the equivalent minimum level of NEMA 4.

BX1-2 is also available with a factory installed power connector to DIN 43650 specifications as shown, (BX1-2X).
- #1 pole - Normally open
- #2 pole - Normally closed
- Ground pole - Common

BX1-3 includes Heyco liquid tight pigtail fitting with strain relief.

MATERIAL:
- Body - 300 Series Stainless Steel
- Strain Relief (BX1-3) nylon with BUNA-N gland.



Military "M" Interface | **BX1-1** | **BX1-2X** | **BX1-2** | **BX1-3**

APPLICABLE SWITCH MODELS: P/V110, P/V250, P325, P400, HE 901-906, DP 10, 30, 50; DV 20, 40, 60 **factory set and locked only.**

BX1 Series Enclosures come standard with 20 AWG x 18" long jacketed wire.

HESS NUMBERING CODE

HE901	—	5	9	C	—	X
BODY STYLE		SENSOR	FITTING	SETTING OPTIONS		ADDITIONAL OPTIONS

SWITCH NUMBERING CODE

SV129	—	3	1	W2	B	—	X
BODY STYLE		SENSOR	AMPERAGE	INTERFACE	SETTING OPTIONS		ADDITIONAL OPTIONS

UNIQUE FOUR DIGIT NUMBER

"File Number"

All Wasco Part Numbers are followed by a unique four digit number (sometimes called "file number") that Wasco will supply to you. This number identifies all the unique properties of your application. Note, this number is issued by the factory or your distributor/representative. Do not insert anything other than what has been issued to you. If the requirements for your application changes, check with Wasco to see if this four digit number needs to change. This number is used as a revision control. Example from "Switch Numbering Code" above is SV129-31W2B-X/2281; "2281" is the "file number".

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ELECTRICAL SWITCH CHARACTERISTICS

MAX. AMP RATING	VOLTS AC/DC	AMP RESISTIVE	AMP INDUCTIVE	CONTACT MATERIAL
1	115/28	1/1	1/0.5	GOLD
5	250/28	5/5	5/3	SILVER
7	250/28	7/7	7/4	SILVER

CAUTION: For optimal Dry Circuit operation, use the gold contact 1 amp switch with a load current greater than 5mA.

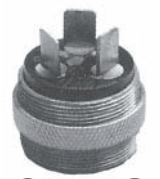
STANDARD & OPTIONAL ELECTRICAL INTERFACES



F2 F3

SCREW TERMINALS

2 terminal 3 terminal
Potted with #8-32 screws.



Q2 Q3

QUICK-CONNECT

2 terminal 3 terminal
Potted, standard terminals that accept the ark-les or equal female terminals.



W2 W3

THIS IS THE STANDARD ELECTRICAL INTERFACE

JACKETED WIRE LEADS

2 wire 3 wire
Potted to full height for strain relief. Standard #20 AWG x 12" long jacketed wire. Polyvinyl chloride insulated.



L2 L3

FLYING WIRE LEADS

2 wire 3 wire
Potted, low profile style, flying leads only. Standard #20 AWG x12" long. Polyvinyl chloride insulated.



S2 S3

SOLDER PINS

2 pin 3 pin
Potted with .060" dia. pins. Also accepts AMP #60789-2 PIN receptacles.

IMPORTANT: If your choice of electrical interface is other than "W3", replace the "W3" with the style of your choice. (i.e. P110-31W3A becomes P110-31F2A)

SWITCH SET POINT SETTING OPTIONS

A = Factory set and field adjustable.
B = Factory set and permanently locked.
C = Set mid-range and field adjustable, customer to set final set point.

WIRE COLOR CODE

Pressure switch:
Common - Black
Normally Open (NO) - White
Normally Closed (NC) - Red

Vacuum Switch:
Common - Black
Normally Open (NO) - Red
Normally Closed (NC) - White

AVAILABLE OPTIONS AND SPECIAL MODIFICATIONS

To modify a part, add "-X" at the end of the part number. A full description must accompany your order.

If our standard line of switches does not meet your special requirements, please consult our Sales Department. We understand your needs in special situations when a standard product will not do the job. We will be glad to review your special requirements and advise you accordingly.

Let Wasco eliminate your final assembly. We can save you time by offering a wide variety of pin and connector assemblies for our switches. We utilize AMP, Molex, Cannon, Burndy, Hirschmann, Packard, Bendix and other connector suppliers. We have a certified class 100 cleanroom for manufacturing and welding. Other diaphragm materials are available such as Kalrez®, Teflon® or Stainless Steel.

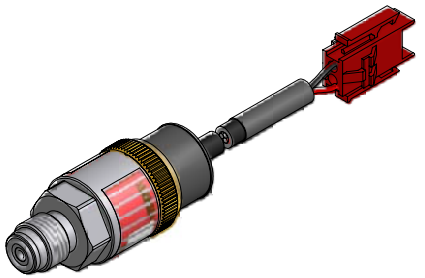
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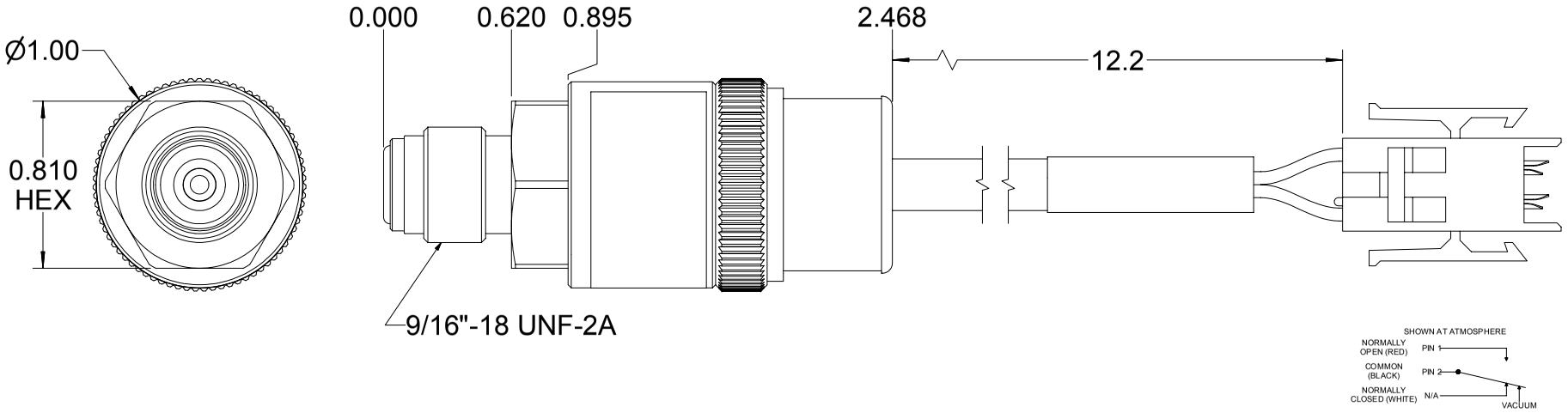
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NOTES:
1. REFERENCE WASCO DATABASE OR CATALOG (S120 SERIES) FOR MORE INFORMATION.
2. SETPOINT IS 600 TORR OPEN INCREASING; PERMANENTLY SET AND LOCKED.
3. CONNECTOR: AMP 1-640507-0; PIN: AMP 640545-2.
4. SWITCH HAS 1/4" MALE FACE SEAL (VCR STYLE) FITTING.
5. USE CAUTION WHEN HANDLING WITH VCR GLAND EXPOSED.

THIRD ANGLE PROJECTION	IDX DENOTES CRITICAL DIMENSIONS THAT WILL BE INSPECTED UPON RECEIVING		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS ± 1/16 DECIMALS .XX ± .020 .XXX ± .005 ANGLES ± 1/2	DRAWN JOHN WARREN	9/5/2007	Wasco, Inc. 3130 SKYWAY DR. #701 SANTA MARIA, CA 93455
	CHECKED		TITLE: SV129-31W2B-X/2281
MATERIAL	QA		
	MFG		
FINISH	APPROVED		SIZE C | FSCM NO. ONTL1 | DWG NO 2281 | REV
DO NOT SCALE DRAWING			SCALE NOTED ON SPECIFIC VIEWS | DEBURR EDGES | SHEET 1 OF 1

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