

### DESCRIPTION AND APPLICATION

These differential pressure switches are used to remotely sense overpressure, vacuum, and differentials of pressure.

Typical applications include sensing fan or blower operation in ducted ventilation systems, sensing pressure drop across filters, and sensing frost build-up on coils. The SPDT switch allows remote status/alarm indication or operation of electrical circuits to other control devices.

The models have three different pressure ranges to meet nearly any need. (See the Models section below.)

Sensor probes, tubing, and screw terminal adapters are included. See [Accessories \(Included\) on page 3](#).

**NOTE:** These specifications are for models that started shipping in April 2020. For specifications of earlier models, see Rev. A of this document.



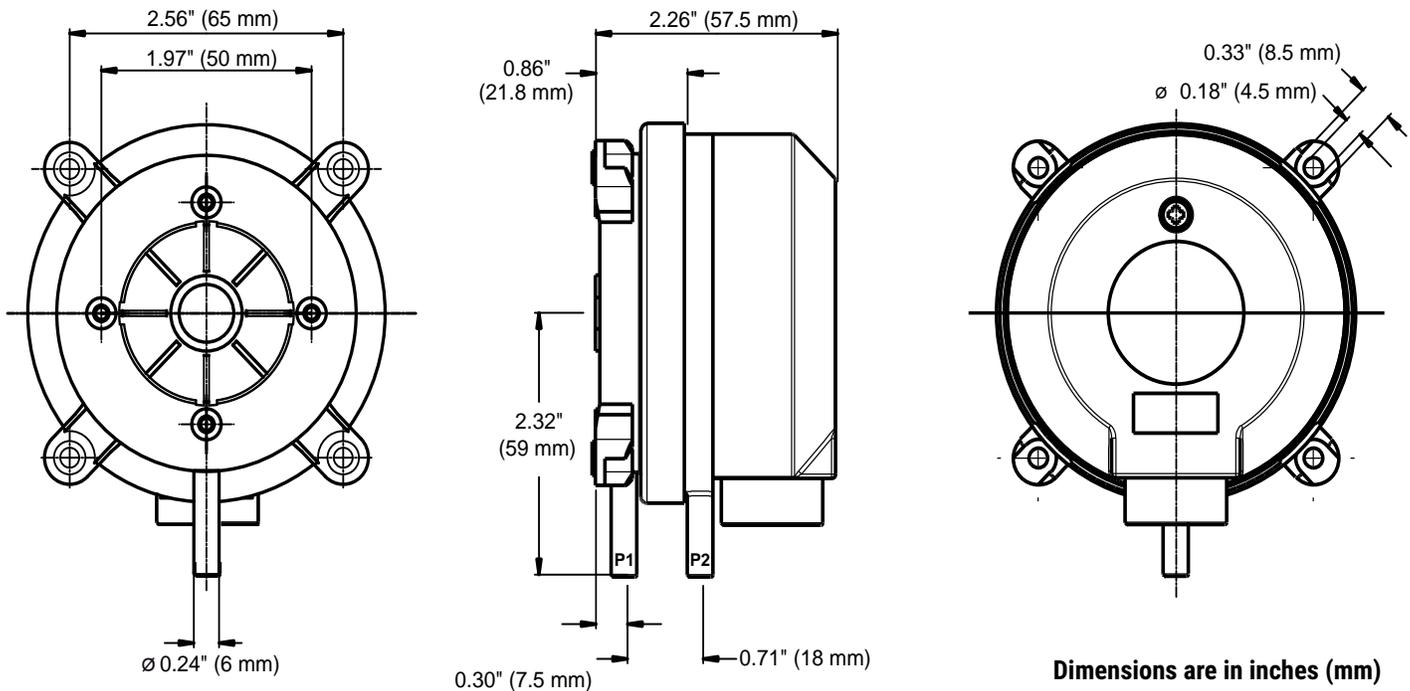
### FEATURES

- ◆ The housing contains a diaphragm, a snap-acting SPDT switch, range adjustment knob with inches water column and Pascals increments
- ◆ The sample connections located on the side accept 6.35 mm (0.25 inches) OD tubing
- ◆ An enclosure cover guards against accidental contact with the live switch terminal screws and the setpoint adjusting dial
- ◆ Three optional pressure ranges
- ◆ Includes mounting screws, terminal screw connection adapters, two sensor probes, and PVC tubing—see the Accessories (Included) section

### MODELS

MODEL NUMBER	SENSING RANGE		SWITCH DIFFERENTIAL	
	INCHES WATER COLUMN (WC)	PASCALS (PA)	INCHES WATER COLUMN (WC)	PASCALS (PA)
CSE-1201	0.08 to 1.20	20 to 300	0.04	10
CSE-1202	0.20 to 2.00	50 to 500	0.08	20
CSE-1203	2.00 to 10.00	500 to 2500	0.60	150

## DIMENSIONS AND MOUNTING

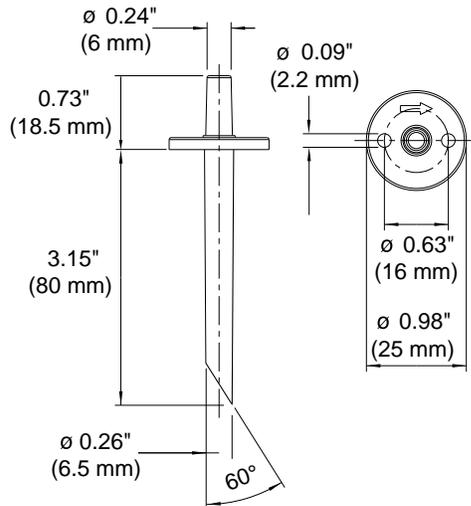


## SPECIFICATIONS

<b>Adjustment Range</b>	See <a href="#">Models on page 1</a>	<b>Contact Type</b>	SPDT, snap-acting
<b>Adj. Knob Markings</b>	Scaled in inches water column and Pascals	<b>Mechanical Life</b>	Over 10 million switching operations
<b>Switch Tolerance</b>	$\pm 15\%$	<b>Mounting Position</b>	Vertically (with the pressure connections pointing downwards to drain any condensation)
<b>Max. Operat. Press.</b>	1.45 psi (10 kPa) for all pressure ranges	<b>Housing Materials</b>	
<b>Medium</b>	Air and non-combustible/non-corrosive gases	Switch Body	Gray PA 6.6 plastic
<b>Diaphragm Material</b>	Silicone, tempered at 200° C, free of gas emissions	Cover	Gray PC plastic
<b>Press. Connections</b>	Two plastic pipe connections; external diameter of 6.0 mm (accept 6.35 mm or 0.25 inch) OD tubing; P1 for connection to higher pressure and P2 for connection to lower pressure	<b>Protection Category</b>	IP54 with cover (NEMA 13)
<b>Electrical Ratings</b>		<b>Weight</b>	5.6 ounce (160 g) with cover
Resistive Load	Max. 1.0 A @ 250 VAC, 50/60 Hz	<b>Temperature Limits</b>	
Inductive Load	Max. 0.4 A @ 250 VAC, 50/60 Hz	Medium/Ambient	-4 to 140° F (20 to 60° C)
Low Voltage	Max. 0.1 A @ 24 VDC	Shipping/Storage	-40 to 185° F (-40 to 85° C)
<b>Switching Rate</b>	Max. 6 cycles per minute	<b>Approvals</b>	CE listed ETL Approves, No. 3192203 UL508 & CSA 22.2
<b>Electric Connections</b>		<b>NOTE:</b>	Not for use in U.S. FDA-controlled application areas
Terminals	Male spade terminals (AMP flat plug 6.3 mm x 0.8 mm) with push-on screw terminal adapters included	<b>NOTE:</b>	These specifications are for models that started shipping in April 2020. For specifications of earlier models, see Rev. A of this document.
Access Port	1/2-inch NPT conduit fitting		

## ACCESSORIES (INCLUDED)

- ◆ Terminal screw connection adapters, three
- ◆ Mounting screws, four
- ◆ PVC tubing, 6.56 feet (two meters)
- ◆ Sensor probes, two 3.15" (80 mm)—see dimensions below



## SUPPORT

Additional product and other resources are available on the web at [www.kmcccontrols.com](http://www.kmcccontrols.com).



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## MORE INFORMATION

For adjustable  $0.05 \pm 0.02$  to 12" wc ( $0.012 \pm 0.005$  to 3 kPa) pressure switches, see the [CSE-1102](#) and (with a compression fit) the [CSE-1103](#).