

	DS3255en	Data Sheet	
PDE2-Series (dP)	Air Differential Pressure Switch with ON/OFF output		

The PDE2-Series (dP) is designed to measure differential pressure in HVAC systems

The differential switch has an internal set point adjuster

Several Switching pressure range are available

The switch outputs are ON/OFF



Use	Compatible to all common HVAC DDC and Analog Controls systems, with/without BA Systems
	Used in all common HVAC applications
	Used in Commercial and Industrial Buildings

Features	Sensor with control output 2-point (ON/OFF)
	Internal set point adjuster
	Long-term stability of the measuring elements
	Professional and practical product design, withstands rough environmental conditions
	Easy to use, install and maintain

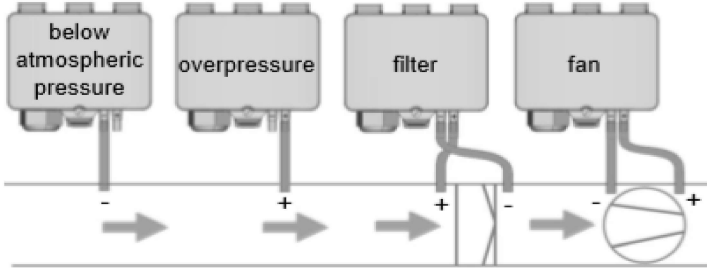
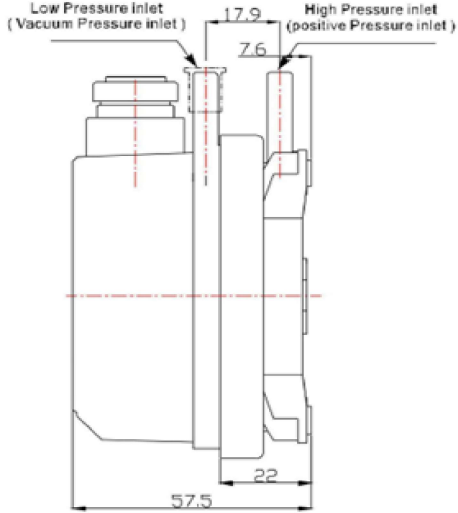
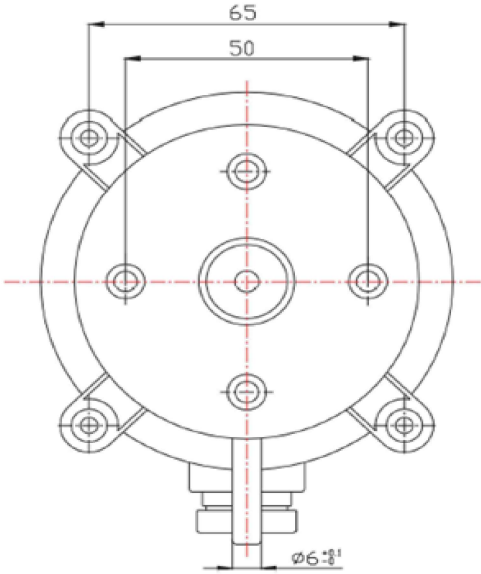
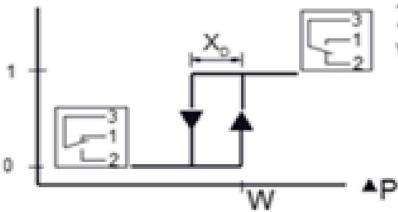
Order Code	Pressure Range	Switching Differential	Switching Point*	Electrical Rating	Tolerances Repeatability	Switching Cycles
PDE2G.NA	20 to 200 Pa	10 Pa	100 Pa	AC 250 V max. 3 A DC 30 V max. 2 A	15 % / 2 %	>1.000.000
PDE2G.AA	30 to 300 Pa	10 Pa	150 Pa			
PDE2G.BA	50 to 500 Pa	20 Pa	250 Pa			
PDE2G.CA	200 to 1000 Pa	100 Pa	500 Pa			
PDE2G.DA	500 to 2500 Pa	150 Pa	1250 Pa			
PDE2G.EA	300 to 1500 Pa	100 Pa	750 Pa			

*default value

Sensor Specification	Sensor Specification	Measured	Differential Air Pressure
		Sensor Characteristics	Passive
		Sensor Output (s)	ON / OFF
		Measuring Range (s)	See product range, page 1
		Default TOP Switching Point (s)	See product range, page 1
		Differential Gap	See product range, page 1
		Tolerance	15 %
		Repeatability	2 %
		Maximum Over Pressure	Max. 10 kPa
		Switching Cycles	> 1.000.000
Technical Information	Electrical Information	Switching Power	AC 250 V
		Switch	SPDT
	Mechanical Information	Connection Nozzle Dimension	Ø6 mm
		Sensing Element Position	Internal, bottom of the housing
		Release Button	No button, automatically
	User Interface	Button	Pressure adjustnet button on the top
	Materials and Colours	Housing Cover	ABS, transparent
		Housing Bottom	POM, grey
		Cable Gland	ABS, grey
		Gland Rubber Seal	Rubber, black
	Environmental Conditions	Protection Caps	White ABS, RAL2002 (Vermilion)
		Diaphragm	Silicone, emission free
		Flammability Standard	UL 94 class HB; IEC 60707; ISO 9770
		Operation Temperature	-20 °C to +85 °C
		Operation Humidity	85 % RH, no condensation
		Transport Temperature	-35 °C to +70 °C
		Transport Humidity	<90 % RH
		Storage Temperature	-10 °C to +70 °C
	Norms and Directives	Storage Humidity	<85 % RH, no condensation
		IP-Rating	IP54 to IEC60529
		Product Safety	Safety class III, in accord. with EN IEC 60730-1
		Product Standard	Automatic electrical controls for household and similar use in accordance with EN IEC 60730-1:2022
		CE marking in accordance with Directive	2014/30/EU Electromagnetic Compatibility (EMC)
		EMC Emissions, in accordance with	EN IEC 60730-1:2022
		EMC Immunity, in accordance with	EN IEC 60730-1:2022
		RoHS Compliance, in accordance with	Directive 2011/65/EU, as amended by (EU) 2015/863
		Operation Climatic Condition	IEC 60 721-3-3
		Operation Mechanical Condition	IEC 60 721-3-2 to class2M2
		Transport to Climatic Condition	IEC 60 721-3-2
		Transport Mechanical Condition	IEC 60 721-3-2 to class2M2
		Storage Climatic Condition	IEC 60 721-3-1
		Storage Mechanical Condition	IEC 60 721-3-1 to class2M2
Miscellaneous	Accessories	Mounting Kit, included in delivery	PUK0.A
	Shipping & Handling	Minimum Order	1 box with 1 piece
		Packaging	Rigid cardboards packaging
	Order Notes	Order Code	See product range, page 1, e.g. PDE2G.NA

All Information and technical data are subject to alteration

PDE2-Series (dP) V26.1

	Installation Notes  Observe the following general regulation for engineering and installation: All relevant national and local electrical installation codes Other country-specific regulations Comply with all local safety regulations, schematics, cable listings, dispositions, specifications, and arrangements from the engineering office in charge Third-party specifications, e.g., general contractors' or constructors' notes								
Advices	Mounting Advices  								
	Disposal Notes  The device is considered an electronic device for disposal in terms of the European Directive 2012/19/EU The device may not be disposed as domestic garbage The device must be disposed through channels provided for this purpose It is mandatory to comply with local currently applying laws and regulations								
Dimensional Drawing / Mounting	  (Dimension in mm)								
Connections & Settings	<table border="1"> <thead> <tr> <th colspan="2">Terminals</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>NC / Low Pressure</td> </tr> <tr> <td>T2</td> <td>NO / High Pressure</td> </tr> <tr> <td>T3</td> <td>Common</td> </tr> </tbody> </table>  X_0 = Switching difference ΔP = Pressure difference W = Top Switching point 	Terminals		T1	NC / Low Pressure	T2	NO / High Pressure	T3	Common
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