

CustomControlSensors

Non-Hazardous Areas Adjustable Pressure Switch

605P* - Piston Sensor



DESCRIPTION

- Highly reliable devices utilizing the CCS Dual-Snap® Belleville disc spring principle pioneered by CCS' engineers.
- Engineering based on aerospace technology.
- Rigid, midsize and internally adjustable for convenient field set point adjustment.
- Repeatable and stable set points.
- Vibration and shock resistant.
- · High cycle life.
- High over-pressure capability. (System and Proof)
- Various options for wetted materials and electrical ratings to meet a wide range of application requirements and media compatibility.
- Well suited for high impulse hydraulic applications.

SHIPPING WEIGHT: APPROXIMATELY 35 OUNCES (992 GRAMS)

.25(TYP)

SERIES:

605P*

ADJUSTABLE SET POINT RANGE:

10 to 5000 PSIG 0.69 to 345 bar 68.9 to 34474 kPa

OPERATING TEMPERATURE:

Temperature limits change with O-ring selection.

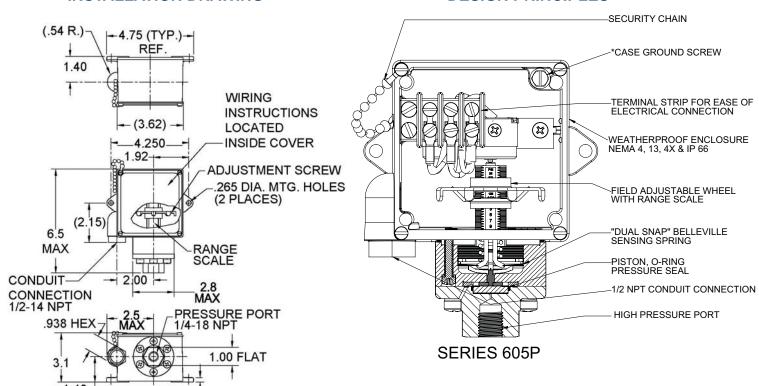
-40° to 186°F -40° to 86°C

STANDARD FEATURES:

- CE Mark
- CRN
- CCC
- NACE MR0175 / ISO 15156
- NEMA: 4,13, 4X / IP66
- Weatherproof
- Internal Case Ground

INSTALLATION DRAWING

DESIGN PRINCIPLES





Non-Hazardous Areas Adjustable Pressure Switch

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OPERATING AND ORDERING DATA

SERIES 605P*	WETTED PARTS: 1/4"-18 NPT ALUMINUM PRESSURE PORT, 400 STAINLESS STEEL PISTON, BUNA N 0-RING/TEFLON					
	ADJUSTABLE SET POINT RANGE		APPROXIMATE	SYSTEM	PROOF	
	INCREASING PRESSURE PSIG (BAR)	DECREASING PRESSURE PSIG (BAR)	DEAD BAND PSI (BAR)	PRESSURE PSIG (BAR)	PRESSURE PSIG (BAR)	
605P*12	20-200	10-188	10-12	2000	3000	
	(1.4-13.8)	(0.68-12.9)	(0.68-0.83)	(138)	(207)	
605P*15	170-1400	90-1230	80-170	3000	5000	
	(11.7-96.5)	(6.2-84.8)	(5.5-11.7)	(207)	(345)	
605P*21	300-3000	180-2780	120-220	5000	7500	
	(20.7-207)	(12.4-192)	(8.3-15.2)	(345)	(517)	
605P*31	2500-5000	2220-4520	280-480	7500	10,000	
	(172-345)	(153-312)	(19.3-33.1)	(517)	(690)	

HOW TO ORDER

Follow these steps to build your part number:

- Specify the series based on your required set point, range, dead band, system pressure and proof pressure.
- 2. Add desired options model code letter.
- 3. Add the applicable standard suffix number.

(Ex: 605PA31-7008)

PRESSURE CONVERSION

1 BAR = 14.5 PSI 1 kPa = 0.145 PSI

OPTIONAL STANDARD MODIFIED SUFFIXES

7008: Gold Contacts **7010:** MS33649-4 Port

7023: Manual Reset after Increasing

CERTIFICATIONS AND APPROVALS

Consult CCS website for complete certification and approval listing.

ELECTRICAL CHARACTERISTICS

RATING OF SWITCH ELEMENT

VOLTS		AMPERES				
		SPDT	DPDT "M"	Dbl Brk "X"		
		Res.	Res.	Res.		
125 AC	- 50/60 Hz	15	5	15		
250 AC	- 50/60 Hz	15	5	15		
480 AC	- 50/60 Hz	15	-	15		
28 DC		6	5	-		
125 DC		.5	.5	1		
250 DC		.2	-	.5		
*125 AC	- 50/60 Hz	1 max	1 max	-		
*30 DC		1 max	1 max	-		
*Gold Contacts -7008 Suffix						

OPTIONS MODEL CODES

A: Viton® O-Ring

F: Ethylene Propylene O-Ring

M: DPDT Electrical

X: Double Break Switching Element

Note: Additional modified standard suffixes are available, consult CCS sales department or CCS Representative.

SCHEMATIC AND WIRING CODE

