

CustomControlSensors

Non-Hazardous Areas Adjustable Pressure Switch

604D* - Diaphragm 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)
- High low over high capability.
- Various options for wetted materials and electrical ratings to meet a wide range of application requirements and media compatibility.

SHIPPING WEIGHT: APPROXIMATELY 40 OUNCES (1134 GRAMS)

SERIES:

604D*

ADJUSTABLE SET POINT RANGE: DIFFERENTIAL PRESSURE:

> 0.3 to 75 PSID 0.02 to 5.17 bar 2.07 to 517 kPa

OPERATING TEMPERATURE:

Temperature limits change with o-ring selection.

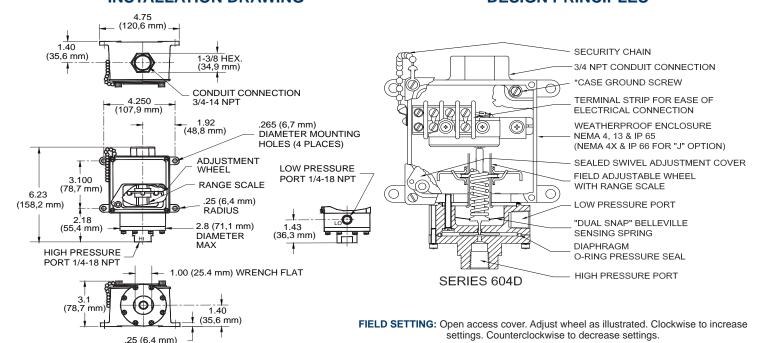
-40° to 186°F -40° to 86°C

STANDARD FEATURES:

- CE Mark
- CRN
- CCC
- NEMA: 4,13 / IP65
- Weatherproof
- Internal Case Ground
- U.L. Listed (File No. E72038)

INSTALLATION DRAWING

DESIGN PRINCIPLES



NOTE: DO NOT USE ELECTRICAL HEX FOR TORQUING.

MODEL 604D1

ILLUSTRATED



Non-Hazardous Areas Adjustable Pressure Switch

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OPERATING AND ORDERING DATA

	WETTED PA	HOW TO ORDER							
SERIES 604D*	ADJUSTABLE SET POINT RANGE		VITON	MAX	PROOF PRESSURE PSIG (BAR)		JRE	Follow these steps to build your part	
	INCREASING PRESSURE PSID (BAR)	DECREASING PRESSURE PSID (BAR)	APPROX. DEAD BAND PSI (BAR)	SYSTEM PRESSURE PSIG (BAR)	BOTH PORTS SIMULT.	LOW	OVER OW OVER GH	number: 1. Specify the series based on your	
	,					HIGH	LOW	required set point, range, dead band,	
604D*1	1-18 (0.069-1.24)	.4-17.4 (0.02-1.2)	.6 (0.042)		750 (52)	750 (52)		system pressure and proof pressure.	
604D*2	6-75 (0.42-5.17)	2-71 (0.14-4.9)	4 (0.28)	400 (28)			400 (28)	Add desired options model code letter.	
604DM*1	1.4-18 (0.097-1.24)	0.5-17.1 (0.034-1.18)	.9 (0.062)					Add the applicable standard suffix number.	
604DM*2	6-75 (0.42-5.17)	2-71 (0.14-4.9)	4 (0.28)					(Ex: 604DM2-7008)	
SERIES 604DZ*-7011	WETTED PARTS: 1/4"-18 NPT 300 STAINLESS STEEL PRESSURE PORT, STAINLESS STEEL CONVERSION DIAPHRAGM, VITON O-RING PRESSURE CONVERSION 1 PAR 1445 PC								
	ADJUSTABLE SET POINT RANGE			MAX	PROOF PRESSURE PSIG (BAR)		JRE	1 BAR = 14.5 PSI 1 kPa = 0.145 PSI	
	INCREASING PRESSURE PSID (BAR)	DECREASING PRESSURE PSID (BAR)	APPROX. DEAD BAND PSI (BAR)	SYSTEM PRESSURE PSIG (BAR)	BOTH PORTS SIMULT.	LOW HI	OVER OW OVER GH	OPTIONS MODEL CODES F: Ethylene Propylene	
						HIGH	LOW	O-Ring J: CSA Approved	
604DZ*1-7011	2-18 (0.138-1.24)	.5-16.5 (0.034-1.14)	1.5 (0.103)	400	750	400	100	(File No. LR22665) (SPDT ONLY)	
604DZ*2-7011	9-75 (0.62-5.2)	3-69 (0.21-4.76)	6 (0.414)	(28)	(52)	(28)	(6.9)	M: DPDT Electrical X: Double Break Switching Element	

OPTIONAL STANDARD MODIFIED SUFFIXES

7008: Gold Contacts

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

CERTIFICATIONS

Consult CCS website for complete certification and approval listing.

ELECTRICAL CHARACTERISTICS

RATING OF SWITCH ELEMENT

		AMPERES					
7	/OLTS	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							

SCHEMATIC AND WIRING CODE

