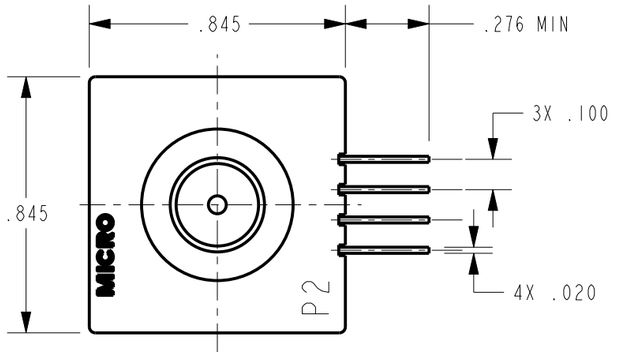
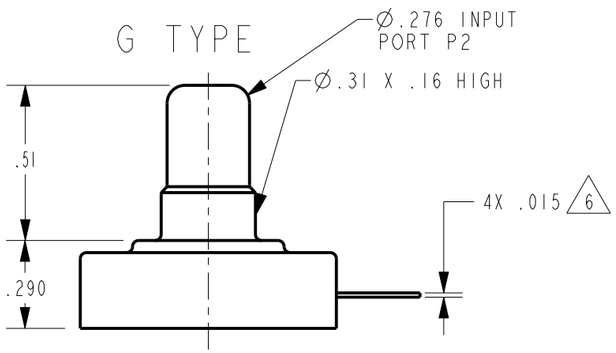
MICRO SWITCH
a Honeywell Division
FED. MFG. CODE 91929

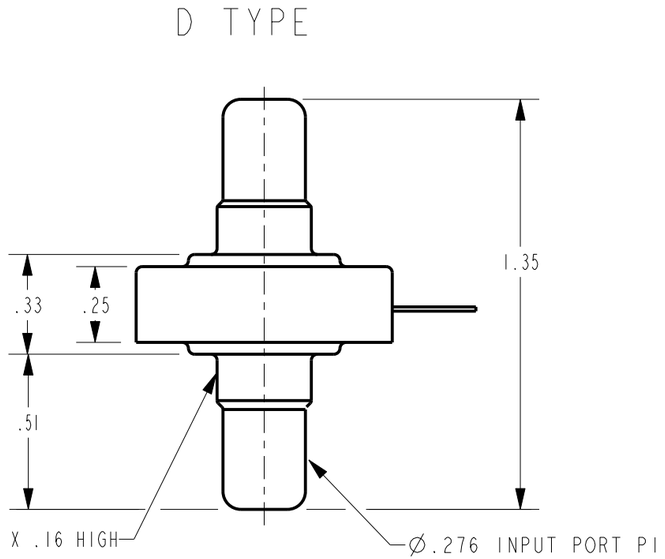
BRIDGE PRESSURE SENSOR

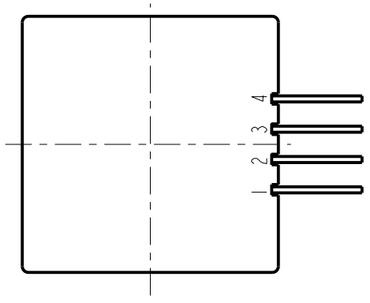
CATALOG LISTING
176PCH SERIES CHART 1

CATALOG LISTING Ⓒ
176PC07HD2
176PC14HG2
176PC14HD2
176PC28HG2
176PC28HD2







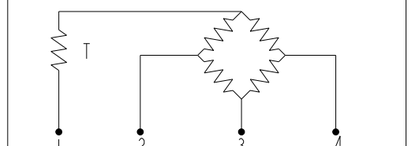


NOTES
1. SPAN IS THE ALGEBRAIC DIFFERANCE BETWEEN END POINTS (OUTPUT AT MINIMUM AND MAXIMUM PRESSURE)
2. TEMPERATURE ERROR IS CALCULATED WITH RESPECT TO 25°C AND EXPRESSES THE DEVIATION THAT COULD OCCUR AS TEMPERATURE IS RAISED OR LOWERED TO LIMITS INDICATED
3. INPUT MEDIA: P1 - DRY GASES ONLY: CONNECTION SIDE OF SENSOR
   P2 - LIMITED ONLY TO THOSE MEDIA THAT WILL NOT ATTACK POLYESTER, SILICON OR SILICONE BASED ADHESIVE
4. TERMINALS ARE PLATED FOR SOLDERING
5. LIMIT SOLDERING TO 315°C FOR 10 SECONDS MAX
6. LISTINGS ENDING WITH THE NUMBER 2 INDICATES STRAIGHT LEADS

GENERAL OPERATING CHARACTERISTICS
(ELECTRICAL PERFORMANCE AT 10.00±0.01 VDC EXCITATION, 25°C)

PARAMETERS	PRESSURE RANGES (H_2O)	MIN	TYP	MAX	UNITS
NULL OFFSET	ALL	-2	0	+2	mV
NULL SHIFT 2 0° ← 25° C → 50°	ALL		±3.0		mV
(P2 > P1) SPAN 1	0 TO 28 D&G	40	42	44	mV
	0 TO 14 D&G	33	35	37	mV
	0 TO 07 D&G	26	28	30	mV
(P2 > P1) SENSITIVITY PER IN. H_2O	0 TO 28 D&G		1.5		mV
	0 TO 14 D&G		2.5		mV
	0 TO 07 D&G		4.0		mV
SPAN SHIFT 2 0° ← 25° C → 50°	ALL				%SPAN
AT 10 VDC	ALL			±3.5	%SPAN
AT 2mA	ALL		NONE		%SPAN
LINEARITY (BFSL) (P2 > P1)	0 TO 28 D&G			±3.0	%SPAN
(P1 > P2)	0 TO 28 D			±1.5	%SPAN
(P2 > P1)	0 TO 14 D&G			±3.0	%SPAN
(P1 > P2)	0 TO 14 D			±1.5	%SPAN
(P2 > P1)	0 TO 07 D&G			±3.0	%SPAN
(P1 > P2)	0 TO 07 D			±1.5	%SPAN
REPEATABILITY & HYSTERESIS	ALL		±0.25		%SPAN
STABILITY OVER 1 YEAR	ALL		±1.5		%SPAN
EXCITATION VOLTAGE	ALL		10	16	VDC
INPUT RESISTANCE	ALL		6.3K		OHMS
(P2 > P1) (P1 > P2) OVERPRESSURE	0 TO 28 D&G			140	IN. H_2O
	0 TO 14 D&G			140	IN. H_2O
	0 TO 07 D&G			140	IN. H_2O
TEMPERATURE STORAGE	ALL	-55° TO +125°C (-67° TO +257°F)			
OPERATE	ALL	-40° TO +85°C (-40° TO +185°F)			
COMPENSATED	ALL	0°C TO +50°C (+32° TO +122°F)			

CIRCUIT DIAGRAM



OUTPUT "A" INCREASES AS P2 PRESSURE INCREASES
OUTPUT "B" DECREASES AS P2 PRESSURE INCREASES

THIRD ANGLE PROJECTION

SCALE 2 : 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE	(.0)	±.030
TWO PLACE	(.00)	±.015
THREE PLACE	(.000)	±.005
ANGLES		±

WEIGHT 2 OZ

ANSI Y14.5M-1982 APPLIES

CATALOG LISTING 176PCH SERIES CHART 1 | PAGE 1 OF 1 | ISSUE 7 | 27 AUG 07 | CMH | 15NOV00 | SAV | 15NOV00 | TSM | 15NOV00 | PTC/CAD 2D | DRAWN | CHECK | CHECK | RELEASE NO. CO-74682 | REPLACES

REVISIONS

A	201670	TSM 15NOV00
B	205984	DLT 15 JUL 02
C	0033081	DDN 27 AUG 07