

MICRO SWITCH
a Honeywell Division
FED. MFG. CODE 91929

BRIDGE PRESSURE SENSOR

176PCH SERIES CHART 1

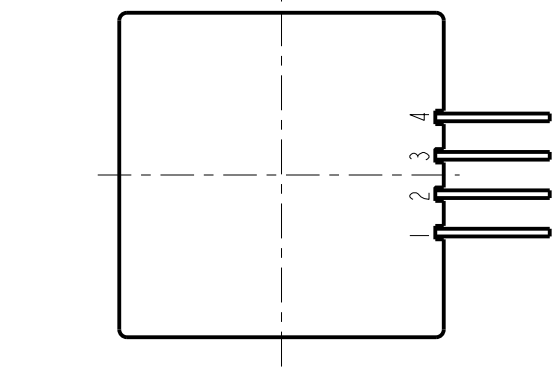
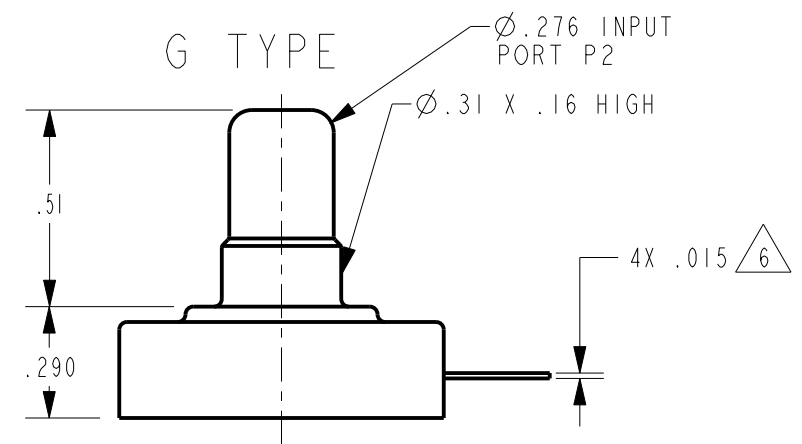
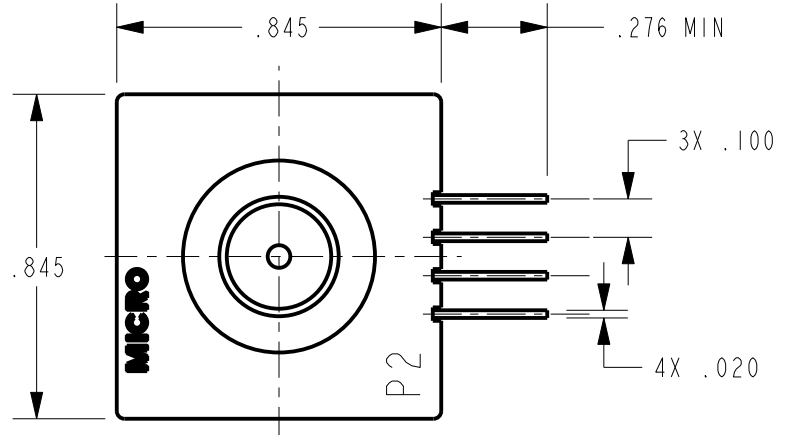
CATALOG LISTING

CATALOG LISTING
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176PC14HG2
176PC14HD2
176PC28HG2
176PC28HD2

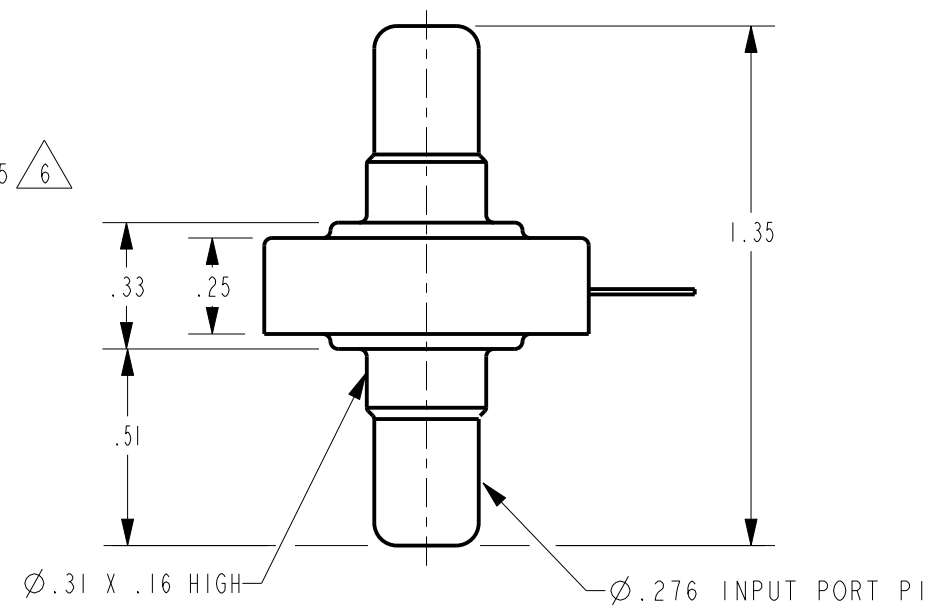
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GENERAL OPERATING CHARACTERISTICS
(ELECTRICAL PERFORMANCE AT 10.00±0.01 VDC EXCITATION, 25°C)

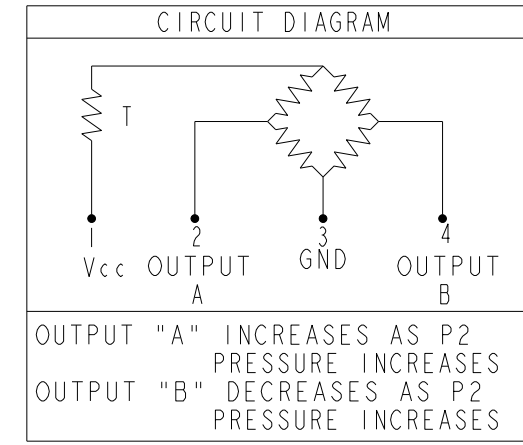
PARAMETERS	PRESSURE RANGES (H ₂ O)	MIN	TYP	MAX	UNITS
NULL OFFSET	ALL	-2	0	+2	mV
NULL SHIFT $\triangle 2$ 0° ← 25° C → 50°			±3.0		
(P ₂ > P ₁) SPAN $\triangle 1$	0 TO 28 D&G	40	42	44	
	0 TO 14 D&G	33	35	37	
	0 TO 07 D&G	26	28	30	
(P ₂ > P ₁) SENSITIVITY PER IN. H ₂ O	0 TO 28 D&G		1.5		%SPAN
	0 TO 14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



D TYPE



- NOTES
- 1 SPAN IS THE ALGEBRAIC DIFFERENCE 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



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