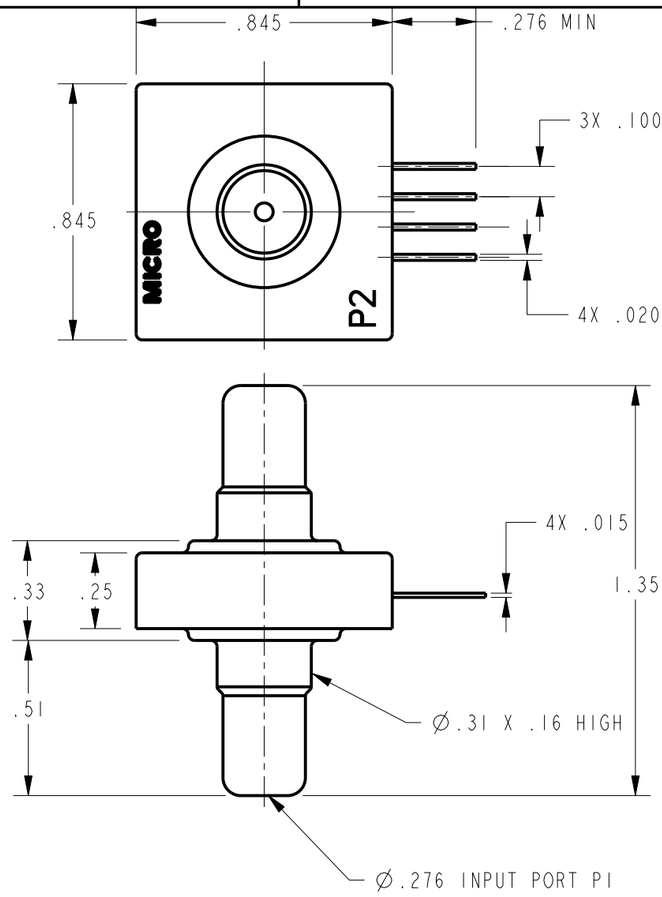
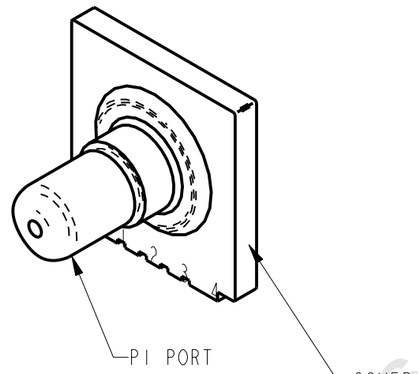
MICRO SWITCH
a Honeywell Division
FED. MFG. CODE 91929

# BRIDGE PRESSURE SENSOR

CATALOG LISTING
176PC07HD33





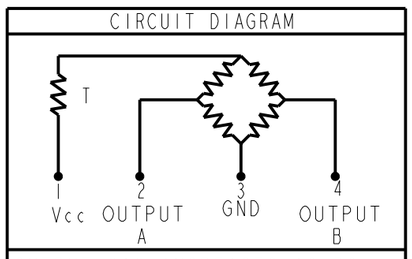




## GENERAL OPERATING CHARACTERISTICS
(ELECTRICAL PERFORMANCE AT 10.0±0.01 VDC EXCITATION, 25°C

| PARAMETERS | PRESSURE RANGES ($H_2O$) | MIN | TYP | MAX | UNITS |
|---|---|---|---|---|---|
| NULL OFFSET | ALL | -2 | 0 | +2 | MV |
| NULL SHIFT △5 0° ← 25° C → 50° | ALL | -1.2 | | +1.2 | MV |
| P2 > P1 F.S.O. △3 (FULL SCALE OUTPUT) | 0 TO 07 D & G | 26 | 28 | 30 | MV |
| P2 > P1 SENSITIVITY PER IN. $H_2O$ | 0 TO 07 D | | 1.5 | | MV |
| F.S.O. SHIFT △5 0° ← 25° C → 50° | ALL | | | ±3.5 | %F.S.O. |
| AT 10 VDC | | | | | |
| AT 2mA | | | NONE | | |
| P2 > P1 | 0 TO 07 D | | | ±3.0 | %F.S.O. |
| P1 > P2 | 0 TO 07 D | | | ±1.5 | %F.S.O. |
| LINEARITY (BFSL) | | | | | |
| REPEATABILITY & HYSTERESIS | ALL | | ±0.25 | | %F.S.O. |
| STABILITY OVER 1 YEAR | | | ±1.5 | | %F.S.O. |
| EXCITATION VOLTAGE | | | 10 | 16 | VDC |
| INPUT RESISTANCE | | | 6.3K | | OHMS |
| (P2 > P1) (P1 > P2) OVERPRESSURE | 0 TO 07 | | | 140 | IN. $H_2O$ |
| TEMPERATURE STORAGE OPERATE COMPENSATED | ALL | | | | |

NOTES
1 - TERMINALS ARE PLATED FOR SOLDERING
2 - LIMIT SOLDERING TO 315°C MAX FOR 10 SECONDS MAX
△3 F.S.O. IS THE ALGEBRAIC DIFFERENCE BETWEEN END POINTS (OUTPUT AND MINIMUM AND MAXIMUM PRESSURE
4 - INPUT MEDIA: PI - DRY GASES ONLY: CONNECTION SIDE OF SENSOR
P2 - LIMITED ONLY TO THOSE MEDIA THAT WILL NOT ATTACK POLYESTER, SILICON OR SILICONE BASED ADHESIVE
△5 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

CIRCUIT DIAGRAM




OUTPUT "A" INCREASES AS P2 PRESSURE INCREASES
OUTPUY "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 176PC07HD33 PAGE 1 OF 1 ISSUE 2
REPLACES -
RELEASE NO. PR-22764
REVISIONS
A 205984 D L T 17 JUL 02
PTC/CAD 2D
DRAWN D L T 17 JUL 02
CHECK
SAV 17 JUL 02
CHECK
CHECK