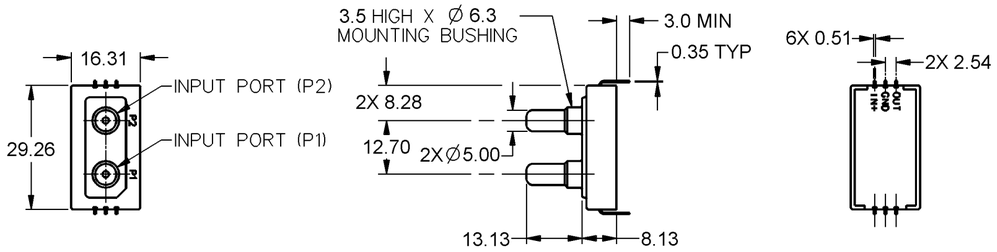

TYPE "D" (DIFFERENTIAL)
MOUNTING TYPE = "T"

TYPE "G" (GAGE)
MOUNTING TYPE = "T"

TYPE "D" (DIFFERENTIAL)
MOUNTING TYPE = "H"

TYPE "G" (GAGE)
MOUNTING TYPE = "H"

M 180PC05 SERIES CHART 1

CATALOG LISTING	TYPE	OPERATING PRESSURE RANGE
184PC05GX	G	0 TO +5 PSIG
185PC05DX	D	0 TO +5 PSID
186PC05DX	D	−5 TO +5 PSID

MOUNTING TYPE
T = TERMINAL
H = HOUSING

GENERAL OPERATING CHARACTERISTICS	
PRESSURE RANGE	0 TO 259mm Hg (0 TO 5 PSI)
OVERPRESSURE	1035mm Hg (20 PSI)
TEMPERATURE RANGES	STORAGE −55 TO +125°C OPERATE −40 TO +85°C COMPENSATED 0 TO +50°C
SUPPLY VOLTAGE	7 TO 16 VDC
SUPPLY CURRENT	6mA MAX WITH 10K LOAD
OUTPUT VOLTAGE	PROPORTIONAL TO SUPPLY VOLTAGE OVER ABOVE RECOMMENDED RANGE
SHORT CIRCUIT LIMIT	MAY BE SHORTED INDEFINITELY
OUTPUT RIPPLE	NONE
GROUND REFERENCE	SUPPLY AND OUTPUT ARE COMMON

ELECTRICAL PERFOMANCE AT 25°C AND 8.00 ± 0.01 VDC SUPPLY	
OUTPUT VOLTAGE	
184PC05G	
NULL (0 PSIG)	1.00±0.05 VDC
FULL SCALE (5 PSIG [259mmHg])	6.00 VDC (TYP) (P2<P1)
F.S.O. ⚠5	5.00±0.05 VDC (P2<P1)
185PC05D	
NULL (0 PSIG)	1.00±0.05 VDC
FULL SCALE (5 PSIG [259mmHg])	6.00 VDC (TYP) (P2>P1)
F.S.O. ⚠5	5.00±0.05 VDC (P2>P1)
186PC05D	
NULL (0 PSIG)	3.50±0.05 VDC
FULL SCALE (5 PSIG)	6.00 VDC (TYP) (P2>P1)
OUTPUT (5 PSIG)	1.00±0.20 VDC (P2<P1)
F.S.O. ⚠5	5.00 VDC TYP
SENSITIVITY	19.33mV/mmHg (1.0V/PSI)
LINEARITY (%F.S.O.) ⚠5 (BFSL)	±1.0 MAX (P2<P1) ±2.0 MAX (P2>P1)
HYSTERESIS & REPEATABILITY (%F.S.O.) ⚠5	±0.25 TYP
TEMPERATURE ERROR (%F.S.O.) ⚠5 0°C < 25°C > 50°C	±2.0 MAX
RESPONSE TIME	1mSEC MAX

NOTES
1 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
2 TERMINALS ARE PLATED FOR SOLDERING
3 LIMIT SOLDERING TO 315°C MAX FOR 10 SECONDS
4 UNITS ARE OF PLASTIC CONSTRUCTION
⚠5 F.S.O. IS THE ALGEBRAIC DIFFERENCE BETWEEN THE OUTPUT END POINTS (NULL AND FULL PRESSURE)
6 FOR MOUNTING TYPE "T" DEVICES EXPOSED TO HIGH VIBRATION LEVELS, AS AN ADDED PROTECTION MEASURE, IT IS RECOMMENDED THAT AN ADHESIVE FOAM SECURE THE TRANSDUCER TO THE SUPPORTING STRUCTURE

THIRD ANGLE PROJECTION
SCALE FULL
DO NOT SCALE PRINT
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE	(.0)	±0.76
TWO PLACES	(.00)	±0.38
THREE PLACES	(.000)	±0.15
ANGLES		±

WEIGHT 7 GRAMS

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FED. MFG. CODE 91929

PRESSURE TRANSDUCER

CATALOG LISTING
180PC05 SERIES CHART 1
(8.00VDC SUPPLY EXCITATION)

MASTER REDUCED
ANSI Y14.5M–1982 APPLIES

DDM/CAD DRAWN TMM 17NOV88 | JAS 15NOV88 | CHECK | RS 19 MAY 10 | CHECK | CHECK

M 180PC05 SERIES CHART 1 | RELEASE NO. PR-16806 | DRAWING NUMBER 5 | ISSUE

REVISIONS

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D	0064547	NR 19 MAY 10	