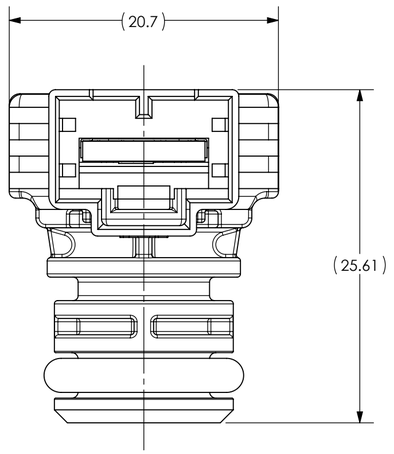
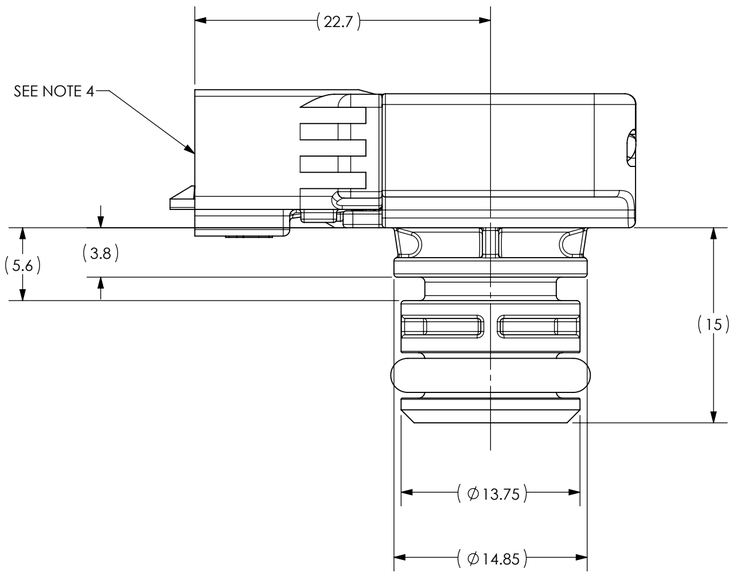
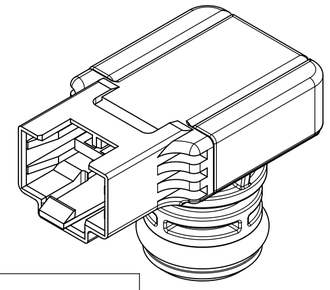
ZONE	REV.	REVISION DESCRIPTION	ECN NO.	DATE
	C	IN ENVIRONMENT TABLE, "OPERATING MEDIA TEMPERATURE RANGE" WAS "OPERATING TEMPERATURE"; IN ENVIRONMENT TABLE, ADDED ROW FOR "OPERATING AMBIENT TEMPERATURE RANGE"; JJ	ECO-271635	04-DEC-2018







ENVIRONMENT

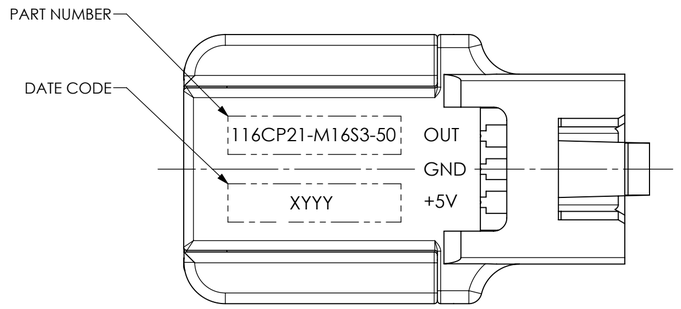
OPERATING MEDIA TEMPERATURE RANGE	2 TO 90°C
OPERATING AMBIENT TEMPERATURE RANGE	2 TO 70°C
PRESSURE RANGE	0 TO 16 BARS (SEE NOTE 1)
HUMIDITY	0-95% (NON-CONDENSING)
ENCLOSURE PROTECTION	IP-40
STORAGE TEMPERATURE	-20 TO 115°C
PROOF PRESSURE	25 BARS
BURST PRESSURE	32 BARS

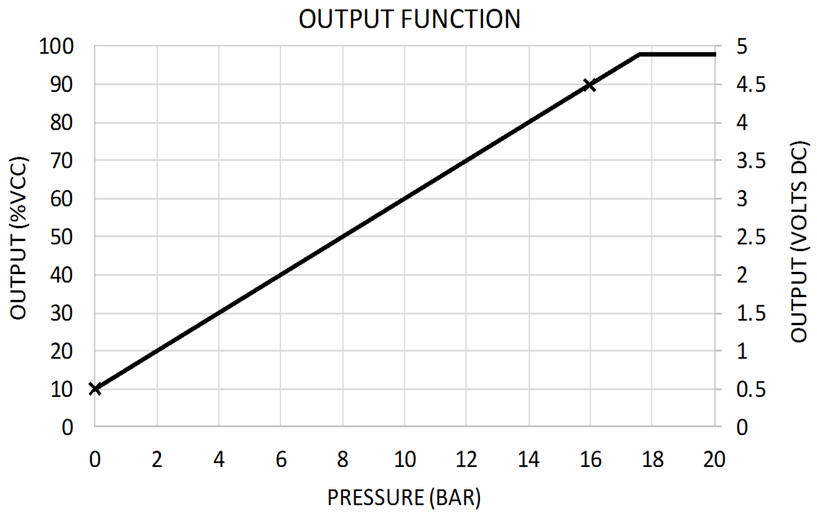
MATERIAL

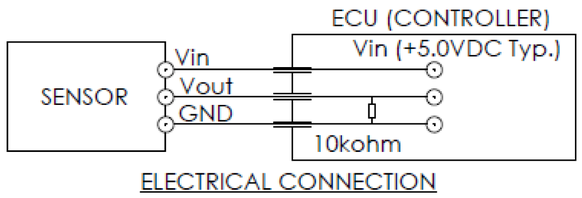
PACKAGE	FIBER REINFORCED PPA
SENSE ELEMENT	96% ALUMINA
PRESSURE SEAL	EPDM

PERFORMANCE

TOTAL ERROR BAND FROM 2 TO 90°C	±1.5 %FS (SEE NOTE 1)







NOTES:

1. BARS DENOTES SEALED GAUGE. PRESSURE REFERENCE IS 14.7 PSIA (ATMOSPHERIC PRESSURE AT SEA LEVEL). 0 TO 16 BARS IS EQUIVALENT TO 14.7 TO 246.7 PSIA
2. FS (PRESSURE) = PMAX. - PMIN. = 16 BAR
   FS (VOLTAGE) = VOUTMAX. - VOUTMIN. = 4 VDC
3. TOTAL ERROR BAND INCLUDES NONLINEARITY, HYSTERESIS AND REPEATABILITY.
4. DESIGNED TO RAST 2.5 REV 05 CONNECTOR SYSTEM.
5. DEVICE MEETS THE REQUIREMENTS OF DIRECTIVE 2011/65/EU FOR RoHS COMPLIANCE AND DIRECTIVE FOR 1907/2006 FOR REACH COMPLIANCE.

TRANSFER FUNCTION

%VCC = 5.00 X PRESSURE (BARS) + 10.00
%VCC = (VOUT / VIN) X 100
PRESSURE (BARS) = 20.00 X (VOUT/VIN) - 2.00
FOR REFERENCE ONLY (VIN = 5.0V), PRESSURE (BARS) = 4.00 X VOUT - 2.00

ELECTRICAL CONNECTIONS

POWER SUPPLY VOLTAGE	5.0 ±0.25 VDC
SUPPLY CURRENT	8.0 mA MAX.
OUTPUT LOAD	10K Ohm PULL DOWN
OUTPUT VOLTAGE RANGE	0.5 TO 4.5V TYPICAL

FOR REFERENCE ONLY, CHECK LATEST REVISION BEFORE USE.
PARTS MADE TO THIS PRINT MUST CONFORM TO E9898 REV. E.

DRAWN TB DATE 16-MAY-2017
ENGINEER M. LERMAN DATE 16-MAY-2017
APPROVED F. J. JAUREGUI DATE 16-MAY-2017
APPROVED B. DAGUE DATE 16-MAY-2017

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INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS.
TOLERANCES
DECIMALS ANGLES

DO NOT SCALE DRAWING | THIRD ANGLE PROJECTION

Sensata Technologies
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P.O. BOX 2964
ATTLEBORO, MA 02703

TITLE
BOILER PRESSURE TRANSDUCER ENVELOPE DRAWING

SIZE	DWG NO.	REV.
A2	116CP21-M16S3-50	C

SCALE 3:1 | SOLIDWORKS | SHEET 1 OF 1

DEVICE: PROJECT: 1