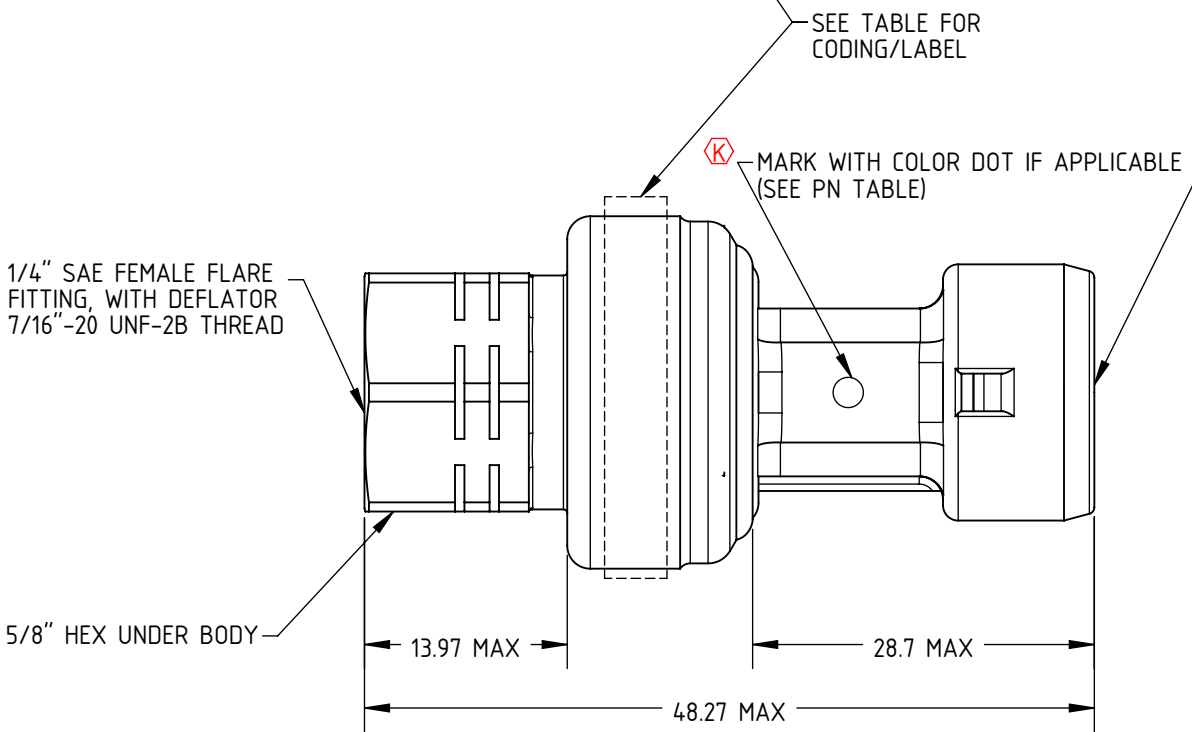
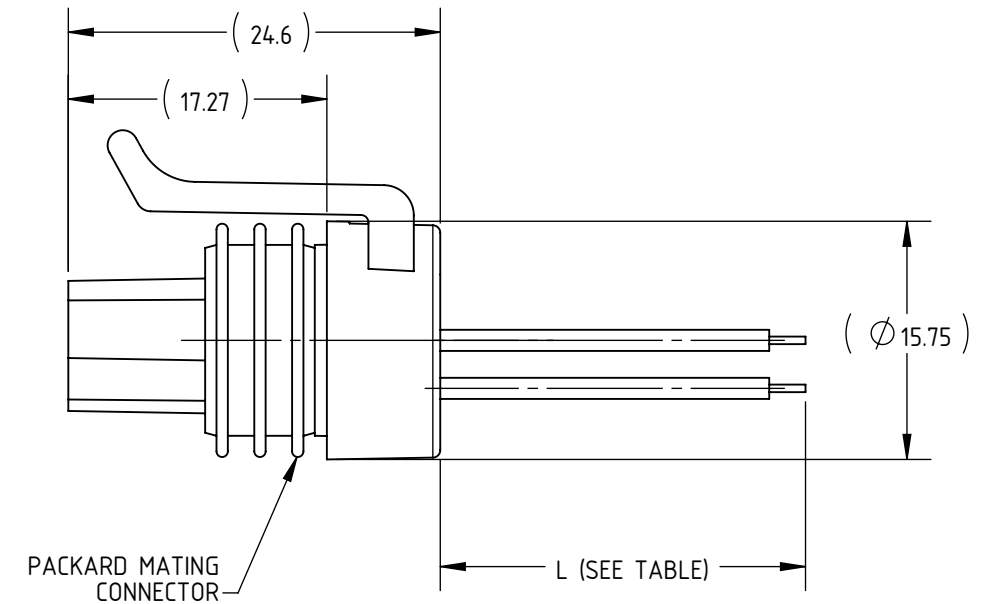
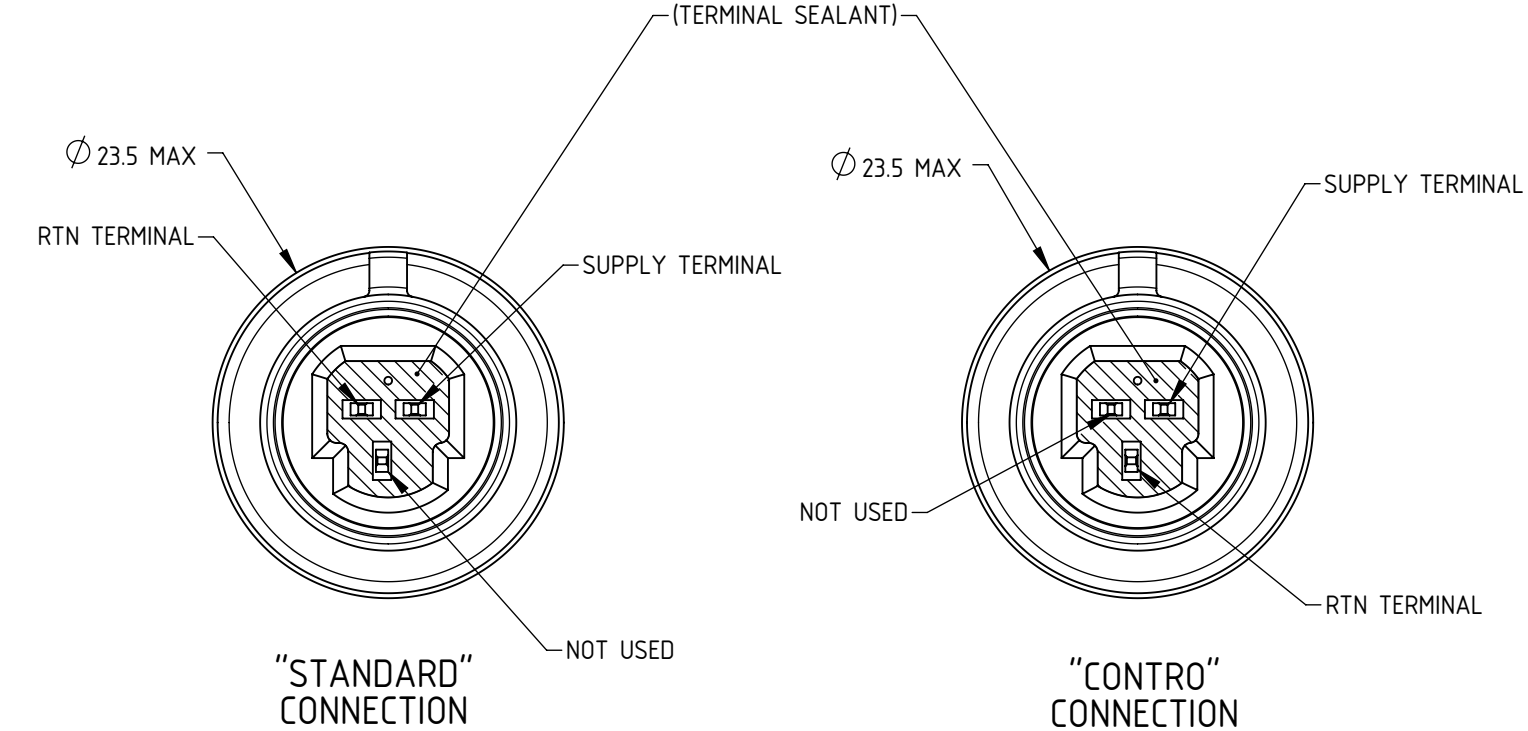
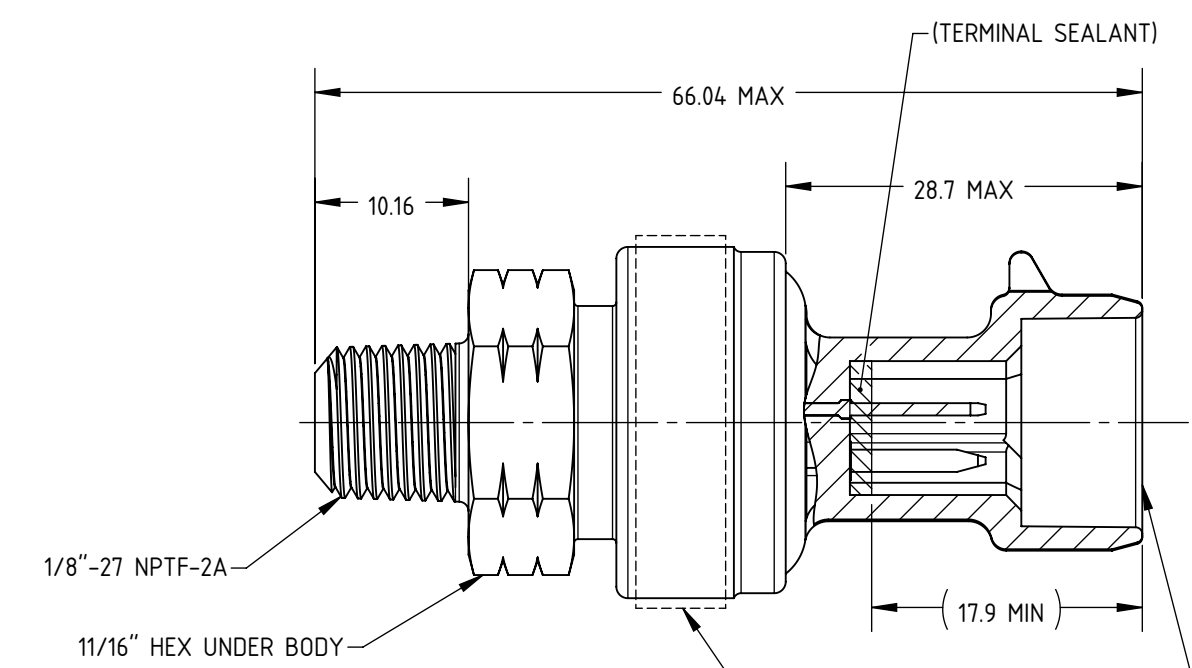


REVISION TABLE					
REV.	DESCRIPTION	DRAFTER	ECO No	DATE	REQUESTOR
K	SEE REVISION ADDENDUM	D. Hristova	ECO-420143	25-Mar-2021	M. Delgado



CONNECTOR DESIGNED TO PART NUMBER 12078088 REV. 01 TO MATE WITH PACKARD CONNECTOR 12065287 REV. B1.

88CP X X X XXX X X (X)

FAMILY DESCRIPTION	
LOW PRESSURE, 4-20mA, STD ACCURACY	

HEXPORT MATERIAL	
CODE	MATERIAL
7	BRASS
8	PLATED STEEL
9	STAINLESS STEEL

TERMINAL SEALANT		
CODE	SEAL MATERIAL	SEAL TEMPERATURE
T	TSE-399 RTV SILICONE	TERMINAL SEALANT, ONLY APPLICABLE WHEN T IS SPECIFIED

PRESSURE SEALS		
CODE	SEAL MATERIAL	SEAL TEMPERATURE
F	FLUOROSILICONE	(-45 °C TO +135 °C)
H	HYDROGEN'D NITRILE	(-20 °C TO +135 °C)
N	NEOPRENE	(-37 °C TO +120 °C)
V	FLUOROCARBON	(-26 °C TO +135 °C)

PRESSURE REFERENCE	
CODE	DESCRIPTION
A	ABSOLUTE (NO VENT)
G	RELATIVE (VENT)
S	SEALED GAGE (NO VENT)

LOW PRESSURE RANGE	
CODE	OPERATING PRESSURE
M11	-1... 11 BAR
M35	0...34.5 BAR
M15	0...15 BAR
M50	0...50 BAR
M18	0...18 BAR
M30	0...30 BAR

SPECIFICATIONS	mA OUTPUT
1. POWER SUPPLY VOLTAGE	6 TO 30 VDC
2. ENVIRONMENTAL(AMBIANT) TEMPERATURE	-20 °C TO +135 °C
3. STORAGE TEMPERATURE	-40 °C TO +150 °C
4. MEDIUM(FUILD) TEMPERATURE	-40 °C TO +135 °C
5. OUTPUT LOAD (WHERE Vs-ACTUAL SUPPLY V)	(Vs-7)/0.02
6. PERFORMANCE(STATIC ERROR BAND @ 25°C)	+/-1% SPAN@16Vdc
7. LINEARITY	<+/-0.75% SPAN
8. ERROR BAND	-20 °C TO +100 °C ±2% SPAN
9. TOTAL ERROR BAND	-20 °C TO +135 °C -3.5%/+2% SPAN
10. OVERVOLTAGE/REVERSE PROTECTION	39 Vdc
11. PROOF PRESSURE	>1.5 TIME PRESSURE RANGE
12. BURST PRESSURE	>3 TIME PRESSURE RANGE
13. RANDOM VIBRATION	10 Grms(25-2000Hz)
14. EMC (512 MHz - 1 GHz acc,EN61000-4-3)	30 V/m
15. ESD (EN61000-4-2)	8kv IN AIR,4kv CONTACT

HEX UNDER BODY		
CODE	THREAD	HEX
2	1/8"-27 NPTF-2A	11/16" UNDER
5	7/16"-20 UNF-2B W/ DEFLATOR	5/8" UNDER

ELECTRICAL CONNECTOR	
CODE	DESCRIPTION
5	TWO TAIL PACKARD CONNECTOR STANDARD
7	TWO TAIL PACKARD CONNECTOR "CONTR0"

MATERIAL	
CONNECTOR:	PP0 30% GLASS FILLED
INSULATOR:	CDA 260 BRASS
TERMINALS:	WITH Sn PLATE

PRODUCTION SETUP P/N	MATING HARNESS	CODING/LABEL
88CP957M35SV	INCLUDING 2 WIRE CONTR0 HARNESS* L=3m	LABEL WITH: P/N, 0.34,5BAR, 4-20mA, 6-30Vdc AND DATECODE
88CP957M11SV	INCLUDING 2 WIRE CONTR0 HARNESS* L=3m	LABEL WITH: P/N, -1.11BAR, 4-20mA, 6-30Vdc AND DATECODE
88CP857M50SN		LABEL WITH: P/N, 0.50BAR, 4-20mA, 6-30Vdc AND DATECODE
88CP957M15SV	INCLUDING 2 WIRE CONTR0 HARNESS* L=3m	LABEL WITH: P/N, 1.15BAR, 4-20mA, 6-30Vdc AND DATECODE
88CP957M50SV	INCLUDING 2 WIRE CONTR0 HARNESS* L=3m	LABEL WITH: P/N, 0.50BAR, 4-20mA, 6-30Vdc AND DATECODE
88CP757M18SNT	NOT APPLICABLE	LABEL WITH: P/N, 0...18BAR, 4-20mA, 6-30Vdc AND DATECODE
88CP757M30SN	NOT APPLICABLE	LABEL WITH: P/N, 0...30BAR, 4-20mA, 6-30Vdc AND DATECODE

* MATING HARNESS IS NOT CONNECTED TO THE SENSOR, HARNESS IS BOXED WITH SENSOR

- NOTES:
- TERMINAL SEALANT DECREASES RATE OF MOISTURE INGRESS INTO THE ELECTRONICS CAVITY PER THE CHILL BLOCK TEST DOCUMENTED IN DOC00127454. TERMINAL SEALANT DOES NOT PROTECT TERMINAL PINS FROM MOISTURE EFFECTS WHICH CAN ADVERSELY AFFECT DEVICE OUTPUT ACCURACY.
 - TERMINAL SEALANT HAS BEEN VALIDATED BY CLIVET IN APPLICATION.
 - APPLICATION NOTE:
 - SENSATA PRESSURE SENSORS OF FAMILY 87CP/88CP ARE NOT INTENDED TO USE AS SAFETY DEVICES AND MAY NOT BE UTILIZED FOR THIS SAFETY FUNCTION.
 - THE SENSOR MUST ONLY BE USED FOR PRESSURE MEASUREMENT; REGULATING THE APPLICATION.
 - THE INFORMATION, RECEIVED FROM THE SENSOR BY CUSTOMER SOFTWARE, SHALL BE TRANSFERRED INTO A CUSTOMER CONTROL UNIT WHICH REGULATES/STEER THE APPLICATION.
 - NEXT TO THE SENSOR, THERE IS ALWAYS A HIGH-PRESSURE CUT-OUT SWITCH MUST BE INSTALLED IN THE SAME APPLICATION, TO PROTECT THE SYSTEM.

FOR REFERENCE ONLY, CHECK LATEST REVISION BEFORE USE.	
FIRST ISSUE DATE 17-Apr-2015	NEITHER THIS PRINT NOR THE INFORMATION CONTAINED HEREON IS TO BE USED AGAINST THE INTERESTS OF SENSATA TECHNOLOGIES OR AGAINST THE INTERESTS OF ANY OF ITS AFFILIATED COMPANIES OR WHOLLY OWNED SUBSIDIARIES.
FIRST DRAWN BY R. van der Felz	ENGINEER K. Maslova
ENGINEERING SUPERVISOR W. Alink	INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS.
PRODUCT GROUP H&I	GENERAL TOLERANCES UNLESS OTHERWISE SPECIFIED: LINEAR ANGLES EDGES 0 UP TO 6: ±0.1 OVER 6 UP TO 30: ±0.2 ±3° OVER 30 UP TO 120: ±0.3 OVER 120 UP TO ∞: ±0.5 acc. ISO 13715:2000
MATERIAL N.A.	DO NOT SCALE DRAWING
GEN. ROUGHNESS Ra acc. ISO 1302:2002	ESTIMATED WEIGHT g
	THIRD ANGLE PROJECTION
	DRAWING SIZE A2

JAN TINBERGENSTRAAT 80
7559 SP HENGEL0
THE NETHERLANDS

Sensata Technologies

TITLE
ENVELOPE DRAWING
88CP 4-20mA PRESSURE TRANSDUCER TYPES

DRAWING STATUS: PRODUCTION

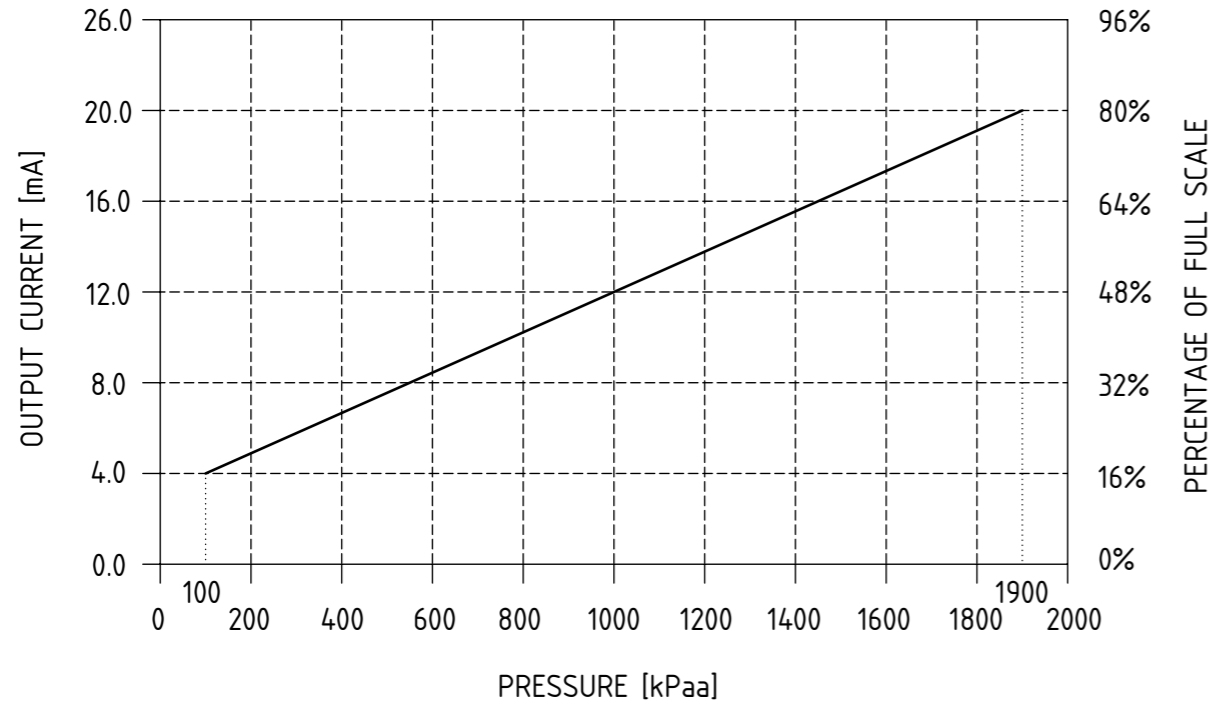
DRAWING NUMBER
T-674308-ENV

SCALE 2:1 SOLIDWORKS SHEET 1 OF 3

REV
K

PRODUCTION SETUP P/N	MATING HARNESS	CODING/LABEL
88CP757M30SN..B01MX	NOT APLICABLE	LASER CODE WITH: SENSATA PN, 0...50BAR AND DATECODE
88CP857M50SN..B01MX	NOT APLICABLE	LASER CODE WITH: SENSATA PN, 0...30BAR AND DATECODE
88CP757M30SH..B10MX	NOT APLICABLE	LASER CODE WITH: SENSATA PN, 0...30BAR AND DATECODE ADD WHITE DOT ON CONNECTOR'S NECK
88CP857M50SH..B10MX	NOT APLICABLE	LASER CODE WITH: SENSATA PN, 0...50BAR AND DATECODE ADD WHITE DOT ON CONNECTOR'S NECK

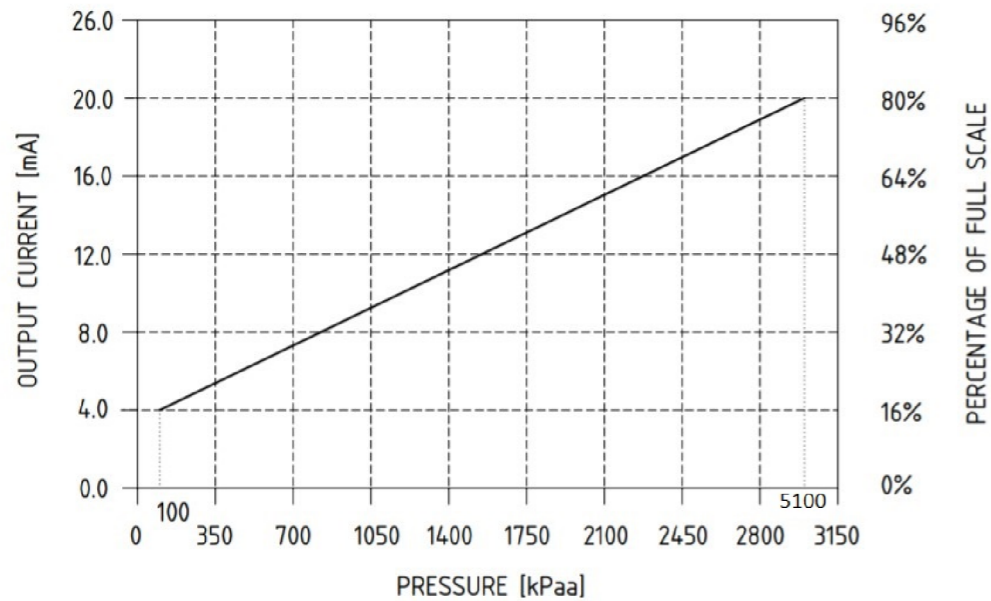
OUTPUT CHARACTERISTICS FOR 88CPXXM18SX(X)



$I_{out} \text{ (mA)} = 0.00889 * P \text{ [kPaa]} + 3.111$
 $\%FS = 0.03556 * P \text{ [kPaa]} + 12.444$
 FULL SCALE (FS) = 25 mA

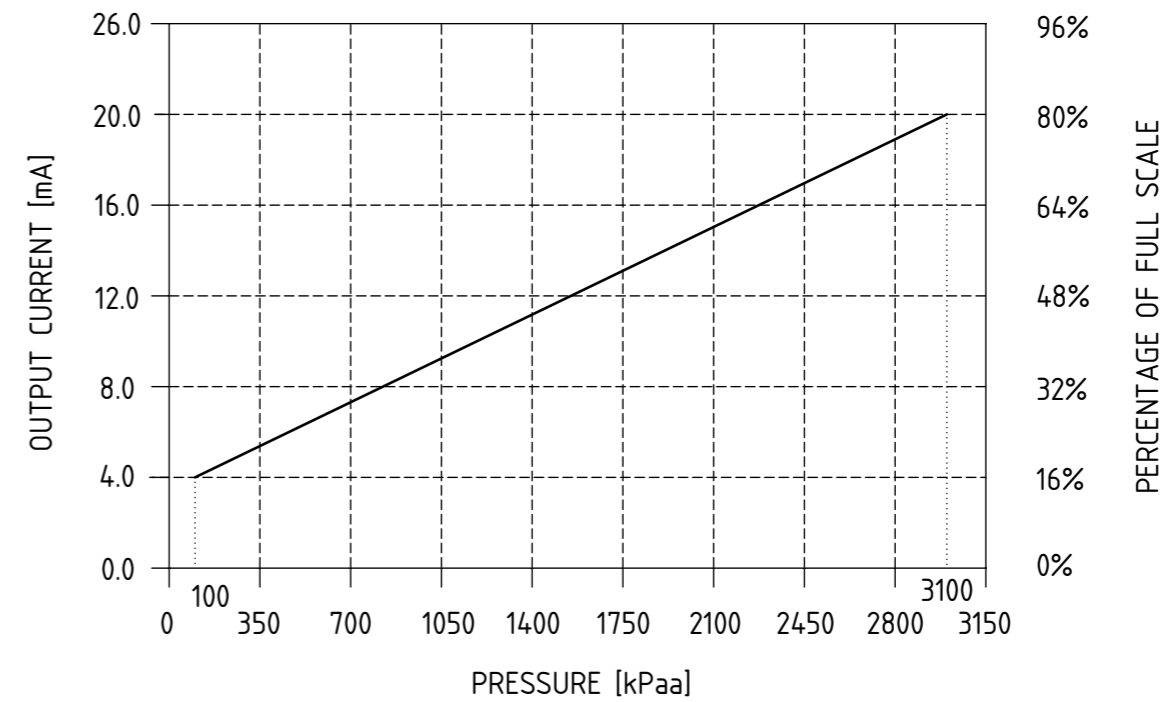
SATURATION FOR BOTH OUTPUT CHARACTERISTIC CHARTS: LOW: 6.62% ±1%FS HIGH: 93.88% ±1.5%FS

OUTPUT CHARACTERISTICS FOR 88CPXXM50SX(X)



$I_{out} \text{ (mA)} = 0.00320 * P \text{ [kPa]} + 3.68$
 $\%FS = 0.0128 * P \text{ [kPa]} + 14.72$
 FULL SCALE (FS) = 25mA
 CHECK SATURATION: LOW: TBD ±1%Vs
 HIGH: TBD ±1.5%Vs

OUTPUT CHARACTERISTICS FOR 88CPXXM30SX(X)



$I_{out} \text{ (mA)} = 0.00533 * P \text{ [kPaa]} + 3.467$
 $\%FS = 0.0213 * P \text{ [kPaa]} + 13.867$
 FULL SCALE (FS) = 25 mA



JAN TINBERGENSTRAAT 80
7559 SP HENGELO
THE NETHERLANDS

DRAWING SIZE	DRAWING NUMBER	REV
A3	T-674308-ENV	K
SCALE 2:1	SOLIDWORKS	SHEET 2 OF 3

