| ZONE | REV | DESCRIPTION | ECO NUMBER | DATE | APPROVED |
|---|---|---|---|---|---|
| | D | UPDATED SPEC: AY | ECO-406197 | 31-DEC-2020 | CX. HU |

## PART NO. DESIGNATION

PTE7100 - 11 A A - 1 A 250B M ..810 A

**SENSATA INTERNAL CODE**

**PRESSURE PORT**
- G1/4A DIN 3852-E .....A
- 1/4-19 PT (1/4-19 BSPT),(R1/4).....B
- 7/16-20 UNF SAE J1926-2.....C
- 1/4-18 NPT .....D

**ELECTRICAL CONNECTOR (DETAILS SEE PAGE 2)**
- DIN 175301-803 A (18mm).....A
- M12x1 - 4 POLE.....B
- PACKARD METRI-PACK 150.....C
- FLY LEAD HARNESS (2m).....D
- DEUTSCH DT04-3P.....E

**EXTERNAL SEAL RING**
- NONE.....0
- FKM (VITON) SEAL RING.....1
  ONLY FOR PRESSURE PORT OPTION A
- HNBR SEAL RING.....2
  ONLY FOR PRESSURE PORT OPTION C

**OUTPUT/INPUT**
- A.....4-20 mA/8-32VDC
- B.....0.5-4.5VDC/5±0.25VDC
- C.....0-5VDC/8-32VDC
- D.....0-10 VDC/12-32VDC
- E.....1-5VDC/8-32VDC
- F.....0.5-4.5VDC/8-32VDC

**PRESSURE RANGE**
- 050B.....0...50barG
- 060B.....0...60barG
- 100B.....0...100barG
- 160B.....0...160barG
- 200B.....0...200barG
- 250B.....0...250barG
- 350B.....0...350barG
- 400B.....0...400barG
- 500B.....0...500barG
- 600B.....0...600barG

**MATING CONNECTOR AND SNUBBER**
- N.....NONE
- M.....MATING CONNECTOR, NO SNUBBER
  MATING CONNECTOR ONLY FOR DIN 175301-803A
- S.....NO MATING CONNECTOR, SNUBBER
  SNUBBER WITH ∅0.5mm DAMPING HOLE
- A.....MATING CONNECTOR, SNUBBER
  MATING CONNECTOR ONLY FOR DIN 175301-803A
  SNUBBER WITH ∅0.5mm DAMPING HOLE

**MOQ**
- A.....MOQ500pcs
- B.....MOQ50pcs

| from 0 to ... | barG | 50 | 60 | 100 | 160 | 200 | 250 | 350 | 400 | 500 | 600 | ... |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Proof pressure | barG | 200 | 200 | 200 | 500 | 500 | 500 | 800 | 800 | 1200 | 1200 | ... |
| Burst pressure | barG | 2000 | 2000 | 2000 | 2500 | 2500 | 2500 | 4000 | 4000 | 4000 | 4000 | ... |

| **Electrical** | | | | |
|---|---|---|---|---|
| Output signal | 0...10 VDC | 0.5...4.5 VDC | 4...20mA | 0...5/1...5/0.5...4.5 VDC ... |
| Operating supply voltage | 12...32 VDC | 5±0.25 VDC | 8...32 VDC | 8...32 VDC ... |
| Overvoltage protection | min. 36 VDC | Not Applicable | min. 36 VDC | min. 36 VDC ... |
| Short-circuit proofness* | YES | YES | Not Applicable | YES ... |
| Reverse polarity protection* | YES | YES | YES | YES ... |
| Load | ≥ 4.7 kΩ | ≥ 4.7 kΩ | ≤ (Vs-8VDC)/(20mA) | ≥ 4.7 kΩ ... |
| *Short spec | for min. 1 minute | | | |
| *Reverse spec | for min. 10 seconds on assigned pins | | | |
| Response time | < 2ms | | | |

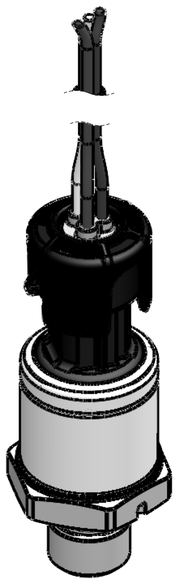
| **Temperature** | |
|---|---|
| Operating | -40°C to +100°C |
| Medium | -40°C to +125°C |
| Storage* | -40°C to +125°C |
| * Storage temperature spec | PVC flying lead are rated for storage temperature range of -40°C to +105°C |

| **Accuracy** | |
|---|---|
| Basic Accuracy* | ± 0.5% FS @ 25°C |
| BFSL Accuracy* | ± 0.25% FS @ 25°C |
| Non-linearity* | ± 0.2% FS |
| Non-repeatability | ± 0.1% FS |
| Total error band | ± 1.5% FS @ -20°C to 85°C |
| *Basic Accuracy | Including non-linearity, hysteresis, zero and span error (corresponds to measured error per IEC 61298-2). |
| *BFSL Accuracy | Including non-linearity, hysteresis and non-repeatability, excluding zero and span error (corresponds to the smart options per IEC 60770-1, the instrument is equipped with facilities for offset and span adjustment). |
| *Non-linearity spec | BFSL (best-fit-straight-line) according to IEC 61298-2 |

| **Conformity** | |
|---|---|
| RoHS & REACH | YES |
| CE | according to EMC Directive 2014/30/EU,<br>EN 61326 Emission and Immunity (industrial locations) |
| Radiated Immunity | 100V/m @ 80...200MHz; 200V/m @ 200...2700MHz, according to ISO 11452-2 |
| Vibration resistance | 30g (sine) min. according to IEC 60068-2-6 |
| Shock resistance | 500g min. according to IEC 60068-2-27, except fly lead with harness |
| Durability | > 10 X $10^6$ cycles |

| Ingress protection per IEC 60 529 | FLY LEAD HARNESS | METRI-PACK 150 | M12x1 4-POLE | DIN 175301 - 803A | DEUTSCH DT04-3P | ... |
|---|---|---|---|---|---|---|
| | IP67 | IP67 | IP67 | IP65 | IP67 | ... |

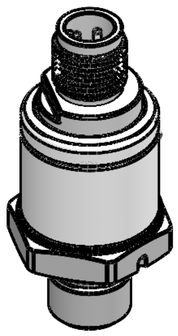
| Media compatibility |
|---|
| All class II fluid and gases compatible withport material stainless steel 17-4PH (1.4542) |



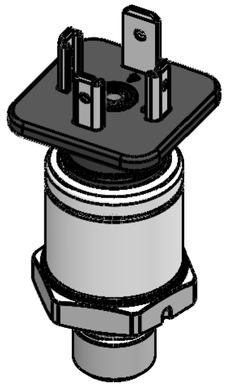
**FLY LEAD HARNESS MODEL SHOWN**



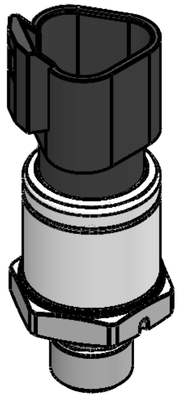
**METRI-PACK 150 MODEL SHOWN**



**M12X1 4-POLE MODEL SHOWN**



**DIN 175301-803A MODEL SHOWN**



**DEUTSCH DT04-3P MODEL SHOWN**

ALL RIGHT RESERVED
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.

Sensata Technologies
18 CHUANGXIN ROAD
XINBEI DISTRICT
CHANGZHOU CHINA

| | | |
|---|---|---|
| DRAWN | W. XU | |
| DATE | 19-MAY-2017 | |
| ENGINEER | W. XU | |
| DATE | 19-MAY-2017 | |
| APPROVED | L. LI | |
| DATE | 19-MAY-2017 | |
| APPROVED | | |
| DATE | | |

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

TOLERANCES
LINEAR
ANGULAR

DO NOT SCALE DRAWING

METHOD THIRD ANGLE PROJECTION

TITLE: PRESSURE TRANSDUCER

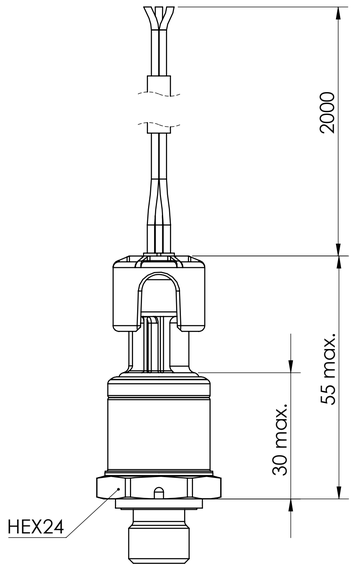
| SIZE | NUMBER | REV |
|---|---|---|
| A1 | PTE7100-TAB-ENV | D |

SCALE 2:1 SHEET 1 OF 3

# BUILT IN ELECTRICAL CONNECTOR OPTIONS

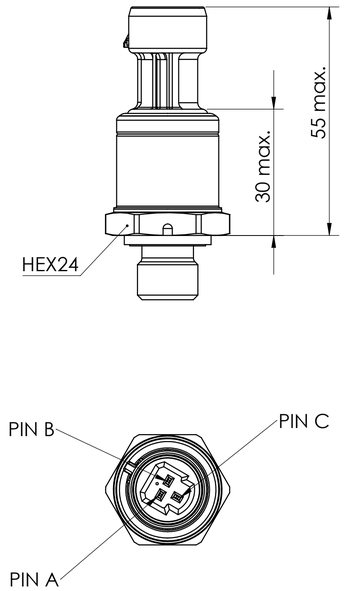
(PRESSURE PORT G1/4A DIN 3852-E SHOWN)

### FLY LEAD HARNESS (2m) CONNECTOR



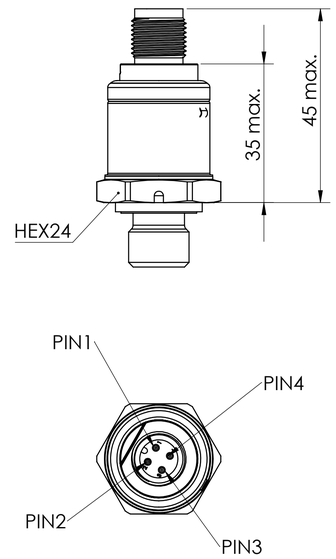

| OUTPUT | BLACK | RED | WHITE |
|---|---|---|---|
| VOLTAGE | V- | V+ | Vout |
| CURRENT | Iout | V+ | ... |

### PACKARD METRI-PACK 150 CONNECTOR



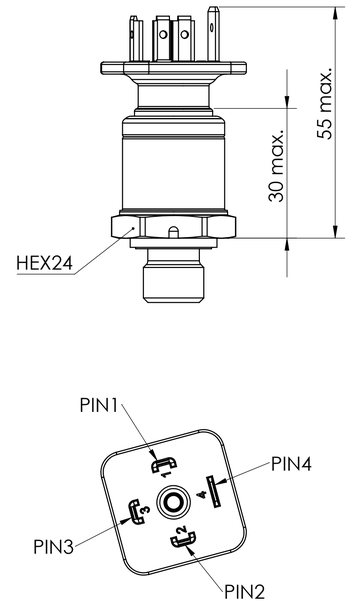

| OUTPUT | PIN A | PIN B | PIN C |
|---|---|---|---|
| VOLTAGE | V- | V+ | Vout |
| CURRENT | Iout | V+ | ... |

### M12x1 4-POLE CONNECTOR



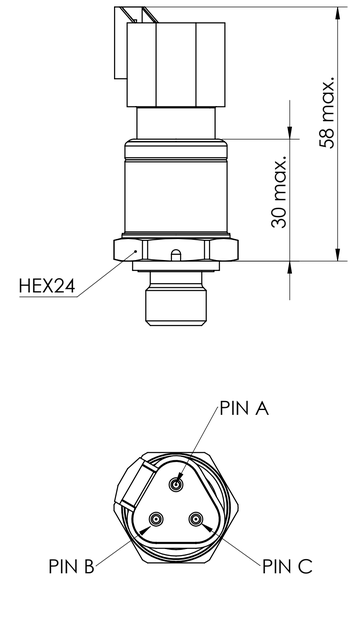

| OUTPUT | PIN 1 | PIN 2 | PIN 3 | PIN 4 |
|---|---|---|---|---|
| VOLTAGE | V+ | ... | V- | Vout |
| CURRENT | V+ | ... | Iout | ... |

### DIN 175301-803A 18mm CONNECTOR




| OUTPUT | PIN 1 | PIN 2 | PIN 3 | PIN 4 |
|---|---|---|---|---|
| VOLTAGE | V+ | V- | Vout | ... |
| CURRENT | V+ | Iout | ... | ... |

### DEUTSCH DT04-3P CONNECTOR



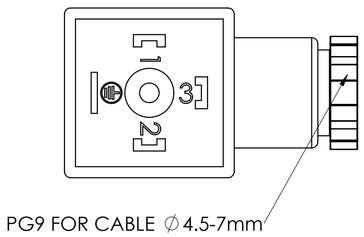

| OUTPUT | PIN A | PIN B | PIN C |
|---|---|---|---|
| VOLTAGE | V+ | V- | Vout |
| CURRENT | V+ | Iout | ... |

NOTE:
V+: Supply Voltage V-: Ground
Vout: Output Voltage Iout: Output Current
... : Not Connected

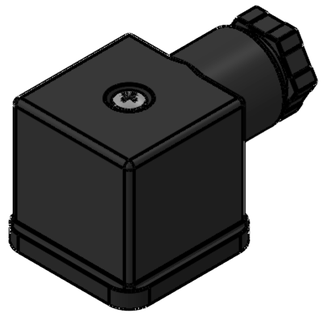
# MATING CONNECTOR OPTIONS

(ONLY DIN 175301-803A 18mm AVAILABLE)

### DIN 175301-803A 18mm MATING CONNECTOR




### MATING CONNECTOR ASSEMBLY



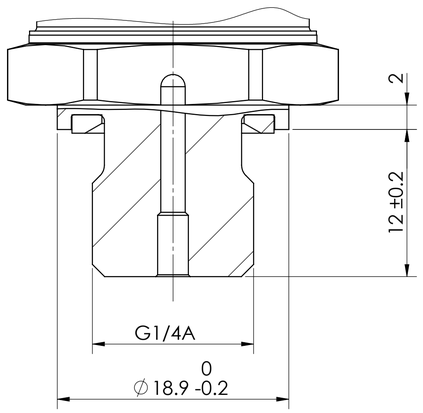
Sensata Technologies
18 CHUANGXIN ROAD
XINBEI DISTRICT
CHANGZHOU CHINA

| SIZE | NUMBER | REV |
|---|---|---|
| A1 | PTE7100-TAB-ENV | D |

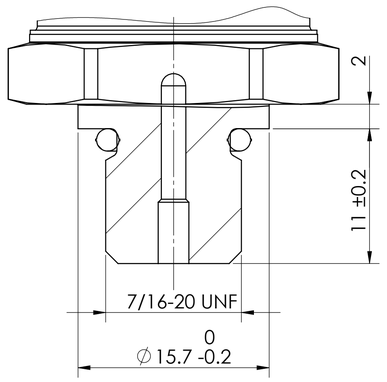
SCALE 3:2 SHEET 2 OF 3

# PRESSURE CONNECTION PORT OPTIONS

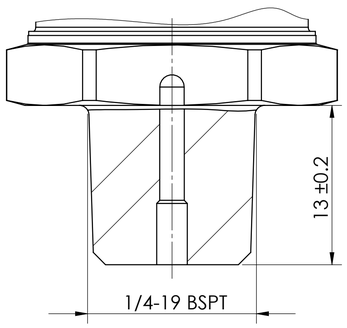
## G1/4A (MALE) DIN 3852-E



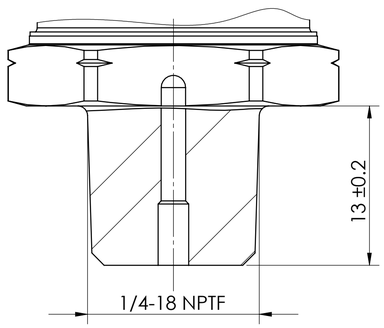

## 7/16-20 UNF J1926-3




## 1/4-19 PT (BSPT)(R1/4)

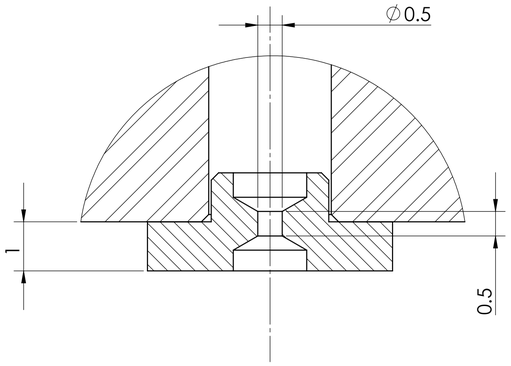



## 1/4-18 NPTF

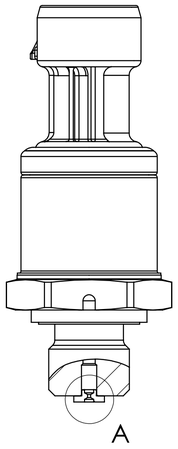



# SNUBBER OPTIONS

(PRESSURE PORT G1/4A DIN 3852-E SHOWN)




DETAIL A
SCALE 16 : 1




Sensata Technologies

18 CHUANGXIN ROAD
XINBEI DISTRICT
CHANGZHOU CHINA

| SIZE | NUMBER | REV |
|---|---|---|
| A1 | PTE7100-TAB-ENV | D |

SCALE 4:1 SHEET 3 OF 3

# Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

## Sensata Technologies:

PTE7300-24DN-0B050BN 84137011 IELK1-1REC4-59-5.00-A-01-V PP21-2-6.00A-OB-V IELHK112-26767-1-V PTE7300-24DN-0B100BN IELX111-1-62-25.0-AE-22-V 209-2-1-52F-2-8-30-H 84137340 PR21-4-15.0A-XX-V DRTA06D06 LELHK11-1-62-40.0-01-V IUGNF66-1-51-5.00 M55629/6-437L D06D60 IEG66-1-62-5.00-A-01-V H12WD4890PH IELHR11-1-52-15.0-01-V D2W202F IUG1-34326-1 IULNK111-1REC4-62-35.0 IEGZX66-1-62-40.0-AG-03-V IULHK11-1REC4-42-50.0-01 IUG66-1-62-30.0-20 IPA-1-1-62-20.0-A-01-T PMP2425WH 209-3-1-61-4-9-30-V H12WD4850 IUGN666-1-42-30.0 CWA2425P