

DST P1xx OEM Pressure Sensor

- available sensor configuration options



FOR INTERNAL USE ONLY

Basic specs. - capabilities

- **Pressure reference:**
 - Absolute and Sealed-gauge (+ gauge >30 bar)
 - Vented gauge (relative)
- **Pressure Ranges:**
 - 0...4 bar to 0...50 bar
- **Operating temperature:**
 - -40 to 135°C* for ratiometric output & abs.voltage
 - -40 to 100°C for 4-20mA
- **Output versions:**
 - Ratio-metric (e.g. 10 to 90% of Vs)
 - 4 to 20mA
 - Q1 2020 Abs. voltage

*max operating temperature can also vary due to electrical connector temperature limitation



Electrical connectors



M12x1.0 AMPSEAL 16 Metri-Pack 150 Bayonet












| Electrical connection type | Electrical connection standard | ID of pins present in connector | Keying code | Pin surface material | Pressure reference | Color of connector |
|----------------------------|--------------------------------|---------------------------------|-------------|----------------------|-----------------------------|--------------------|
| AMPSEAL 16 | None | 1,2,3 | 3/C | Au | Absolute | Black |
| Metri-Pack 150.2 (Round) | None | A,B,C | NA | Sn | Absolute | Black |
| Bayonet | ISO15170 | 1,2,3 | | 1Au | Absolute | Black |
| Bayonet | ISO15170 | 1,2,4 | | 1Sn | Absolute | Black |
| Metri-Pack 150.2 (Round) | None | A,B,C | NA | Sn | Absolute | Green |
| Deutsch DT04-4P | None | 1,2,3,4 | NA | Au | Absolute | Black |
| M12 x 1.0 | IEC60947-5-2(1997) | 1,2,3,4 | A | Au | Absolute | Black |
| M12 x 1.0 | IEC60947-5-2(1997) | 1,2,3 | A | Au | Gauge | Black |
| Metri-Pack 150.2 (Round) | None | A,B,C | NA | Sn | Gauge | Black |
| Bayonet | ISO15170 | 1,2,4 | | 1Sn | Gauge with venting membrane | Black |

Pressure connections



| Thread size | Thread standard | Internal/ External thread | Pressure connection standard | Sealing by |
|------------------------|------------------------|---------------------------------|--|-------------|
| M14x1.5 | ISO 261 | External | ISO 6149-2 | O-ring |
| 7/16-20 UNF | ISO 263 | Internal | SAE J513 45° flare | None |
| M10x1.5 | ANSI B1.13M | External | None | O-ring |
| M16x1.5 | ISO 261 | External | ISO 6149-2 | O-ring |
| 1/8-27 NPT | ANSI B1.20.1 | External | None | None |
| 1/8-27 NPTF | ANSI B1.20.3 | External | None | None |
| 1/4-18 NPT | ANSI B1.20.1 | External | None | None |
| 1/4-18 NPTF | ANSI B1.20.3 | External | None | None |
| M10x1.0 | ISO 261 | External | ISO 6149-2 | O-ring |
| 7/16-20 UNF | ISO 725 | External | ISO 11926-2 | O-ring |
| M12x1.5 | ISO 261 | External | ISO 6149-2 | O-ring |
| G 1/4 A | ISO 228-1 | External | ISO 1179-2 | ED-sealing |
| Solder tube connection | Solder tube connection | External | For solder tube | Solder tube |
| M18x1.5 | ISO 261 | External | ISO 6149-2 | O-ring |
| R 1/4 | ISO 7-1 | External | None | None |
| G 1/2 B | ISO 228-1 | External | EN 837-1 | None |
| 1/2-14 NPT | ANSI B1.20.1 | External | None | None |
| M12x1.0 | ISO 261 | External | Undercut as per BS 1936-2 for pitch of 1.0 mm | None |
| M10x1.25 | ISO 261 | Internal | None | None |

Approvals/Certificates

| | | |
|---|-------------|---|
|  | CE | link |
|  | UL | Ratiometric (incl. Solder tube): Done, 4-20mA: applied – pending, abs.vol.: applied – pending |
|  | UBA | Metal to metal pressure connection: Manufacturer's decl. → link For other pressure connection: not applied |
|  | KTW | It has been replaced by UBA |
|  | ACS | Metal to metal pressure connection: Manufacturer's decl. → link For other pressure connection: not applied |
|  | NSF | Certificate in place for metal to metal pressure connection |
|  | WRAS | Not applied |
|  | REACH | Danfoss position on REACH → Link |
|  | RoHS II | link |
|  | EAC | Declaration of conformity → Link / in progress for std P110 marking |
|  | ATEX Zone 2 | In progress for P110 |



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