External Sensor ESD-A5-Ex
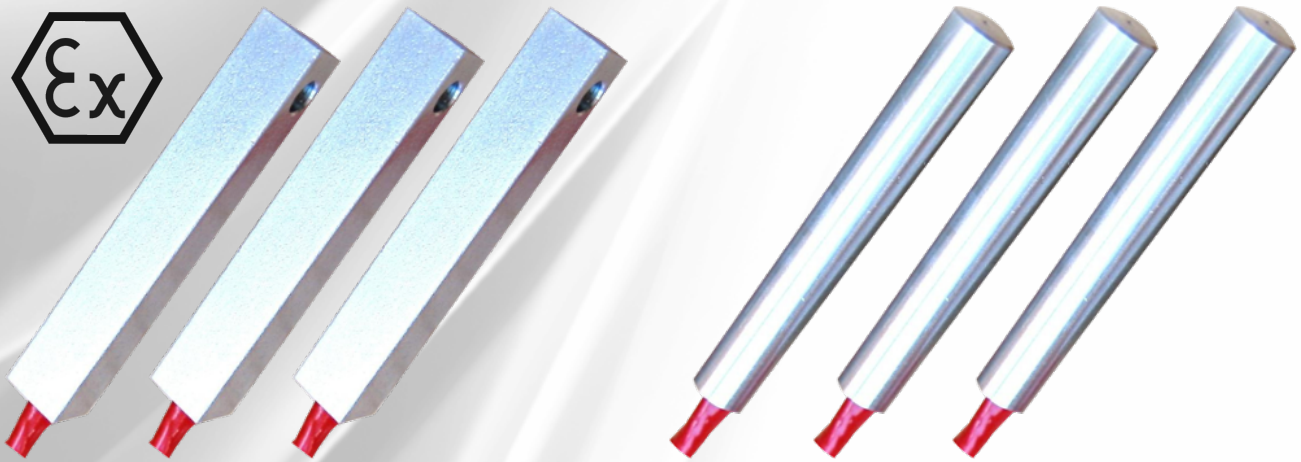
Features

- ATEX marking for use in zones *2* and *22*
- Highly resistant against corrosion, pitting and a multitude of chemicals
- Hermetically sealed by a thermally conductive potting compound
- Prismatic stainless steel housing with a 4 mm mounting bore for fitting to measurement object
- Cylindrical stainless steel housing for feeler application
- To be used with sensor control unit **SCU 800** or d-LISTcontroller
- May be combined with d-LIST sensor cable **SEC 15**
- Maximum number of external sensors each for inputs *A* / *B* of a sensor control unit **SCU 800** or d-LISTcontroller:
  Up to 50 external sensors with a total cable length of up to 100 m
  From 51 to 99 external sensors with a total cable length of up to 50 m
  In combination with sensor cable **SEC 15** four external sensors at each sensor cable end with a total cable length of up to 200 m

General Data

- Type of protection zone *2*:   II 3G Ex ec IIC T4 Gc
- Type of protection zone *22*:   II 3D Ex tc IIIB T125°C Dc
- Operating temperature: -20 °C...+70 °C
- Ingress protection: IP 64
- Cable routing: EN 60079-0 / 26.4.2 routing protected against mechanical impact energy
- Connection boxes: **CBO 5-Ex** *inside* Ex-Zone resp. **CBO 5-SEC** / **CBO 5-ESD-T** *outside* Ex-Zone with **SCU 800**, or **CBO 15-SEC** / **CBO 15-ESD** *outside* Ex-Zone with d-LISTcontroller
- Housing material: Material no. 1.4571 (DIN EN X6 CrNiMoTi 17-12-2)
- Cable isolation material: FEP (Fluorinated Ethylene Propylene)
- Storage Conditions: 0 °C ... +60 °C, 30% … 70% relative humidity, non condensing, prevention against shock, vibration, dust, electrostatic discharge **ESD**, **UV** light

Sensor Specifications

- Measurement range: -40 °C … +120 °C
- Measurement resolution: 0,0625 °C, output via protocol interface 0,1 °C
- Repeatability: ± 0,0625 K, output via protocol interface ± 0,1 K
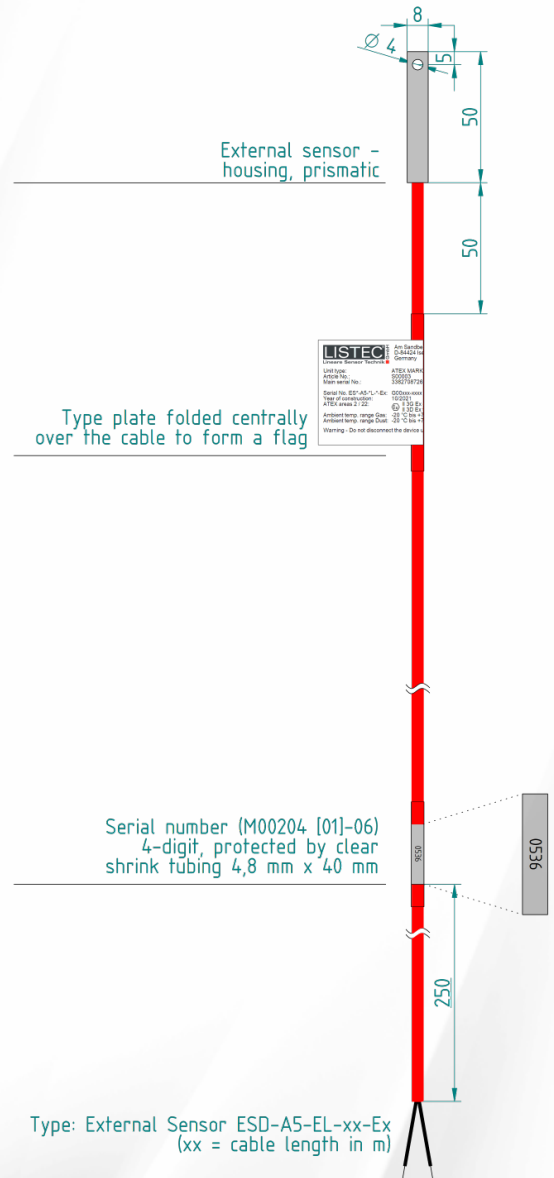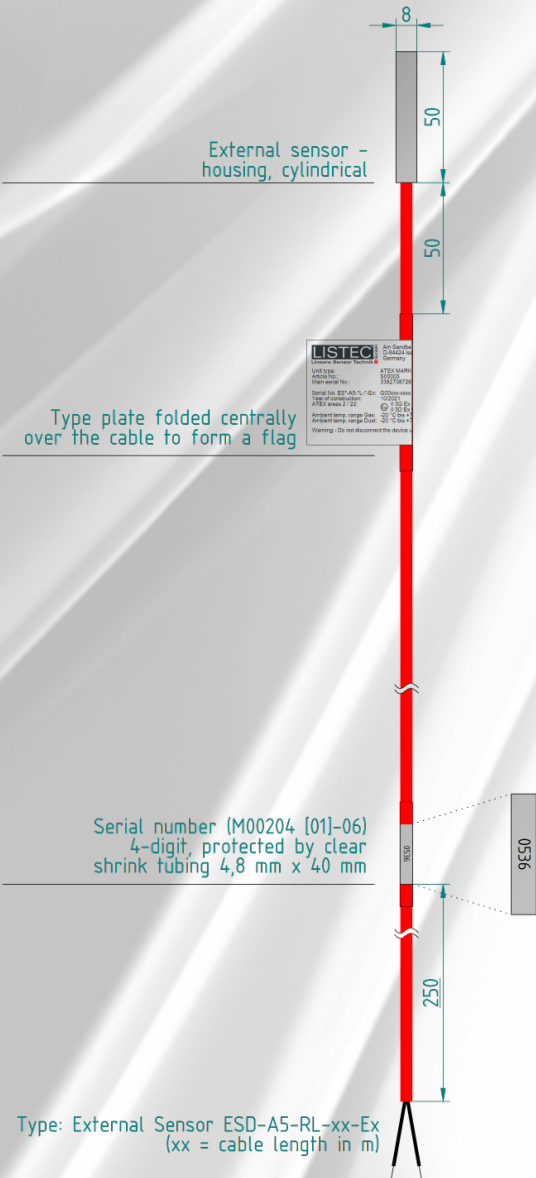- Power supply: 5 V DC via **SCU 800** or d-LISTcontroller

Ordering Information

- External Sensor **ESD-A5-EL-02** (2 m connection cable, prismatic) — Art.-no.: **G00344**
- External Sensor **ESD-A5-EL-05** (5 m connection cable, prismatic) — Art.-no.: **G00346**
- External Sensor **ESD-A5-EL-10** (10 m connection cable, prismatic) — Art.-no.: **G00499**
- External Sensor **ESD-A5-RL-02** (2 m connection cable, cylindrical) — Art.-no.: **G00348**
- External Sensor **ESD-A5-RL-05** (5 m connection cable, cylindrical) — Art.-no.: **G00350**
- External Sensor **ESD-A5-RL-10** (10 m connection cable, cylindrical) — Art.-no.: **G00498**
- ATEX Marking for external sensor **ESD-A5** — Art.-no.: **S00003**

Scope of Delivery

▶ External sensor with integral connection cable (length according to order)

▶ ATEX marking

▶ Production file

Dimensions

External sensor –
housing, cylindrical

Type plate folded centrally
over the cable to form a flag

Serial number (M00204 [01]-06)
4-digit, protected by clear
shrink tubing 4,8 mm x 40 mm

Type: External Sensor ESD-A5-RL-xx-Ex
(xx = cable length in m)

External sensor –
housing, prismatic

Type plate folded centrally
over the cable to form a flag

Serial number (M00204 [01]-06)
4-digit, protected by clear
shrink tubing 4,8 mm x 40 mm

Type: External Sensor ESD-A5-EL-xx-Ex
(xx = cable length in m)

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Subject to change without prior notice!