## Technical specifications: EC28 i / EC28 Di

<table>
<thead>
<tr>
<th>Measuring principle</th>
<th>Electrochemical (EC): for toxic gases and oxygen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring gas supply</td>
<td>Diffusion</td>
</tr>
<tr>
<td>Expected average life of the sensor</td>
<td>sensor dependent</td>
</tr>
<tr>
<td>Response time</td>
<td>sensor dependent</td>
</tr>
</tbody>
</table>

### Power supply
- **Supply voltage:** 15...30V DC for inherently safe supply, $V_i \leq 30V$
- 21...27V DC for supply via Zener barrier
- **Maximum supply current:** 25 mA
- **Output signal:**
  - for Ex zone: max. load 100 Ohm with Zener barrier
  - not Ex zone: max. load 200 Ohm without Zener barrier

### Climatic conditions
- **Short-term storage temperature:** -25...+60°C
- **Recommended storage temperature:** 0...+30°C
- **Operational temperature (ambient):** -20...+50°C
- **Humidity range:** 5...90% r.h.
- **Air pressure range:** 80...120kPa

### Housing
- **Sensoraufnehmer:** Stainless steel
- **Stability:** Protect the casing against very hard impacts (> 4 J)
- **Material:** anti-static plastic
- **Dimensions:** 115 x 203 x 55 mm (W x H x D) (H with sensor: 193 mm)
- **Weight:** ca. 800 g (with display)
- **Protection class:** IP64
- **Cable connection:** Cable gland(s) M16x1,5 max. core cross-section 3(4) x 1,5 mm²
  - LIYC 2 x 0,75mm² up to 500 m or
  - LIYC 2 x 1,5 mm² up to 1000 m

### Approvals / Tests
- **Markings and ignition protection types:** Ex II 1G Ex ai IIC T4 Gb
  - CE 0158
- **EU Type Examination Certificate:** BVS 04 ATEX E 132 X
- **Electromagnetic compatibility:**
  - Interference emission: Type class I
  - Interference immunity: Type class II

© GfG - 2021 | All information in this data sheet is subject to technical changes due to further development.