FDB221  Sinteso™
Addressable (FDnet) Detector bases and accessories
Product Manual

Overview
The FDB221 addressable (FDnet) detector bases are universal bases suited for surface and recess mounting.

Characteristics
- Universal base, suited for surface and recess mounting
- Extra-large mounting slots facilitate a re-use of existing drill holes resulting from other systems
- Large opening in the detector base for easy cable insertion
- Screw less terminals (spring clip principle)
- Detector line can be connected without any tools; the wire can be simply plugged in manually
- Loop contact
- Accessories for surface mounting, humid or wet environments, theft prevention, dust protection, location inscription and detector heating unit against moisture condensation or frost formation

Function
- For fire detectors with addressable signal processing
- Terminals ‘orange’, wire cross-sectional area from 0.2 to 1.5 mm²
Application

- For recess supply wiring
- For surface supply wiring, cable diameter up to 6 mm

Detector base height 22 mm
Height with inserted detector 54 mm
Mounting slots min. 46 mm to max. 79 mm
Loop contact
Screw less connecting terminals
Opening for cable entry

Accessories

- **Auxiliary terminals / Micro terminals**

<table>
<thead>
<tr>
<th>DBZ1190-AA</th>
<th>DBZ1190-AB</th>
</tr>
</thead>
<tbody>
<tr>
<td>- For conductors of max. 0.5 mm²</td>
<td>- For conductors of max. 2.5 mm²</td>
</tr>
<tr>
<td>- For the connection of 2 alarm indicators or cable screening</td>
<td></td>
</tr>
</tbody>
</table>

- **Designation plates FDBZ291, DBZ1193A**
  - To identify the location address

FDBZ291 for detector base and base attachment
DBZ1193A for base attachment wet
- **Detector heating FDBH291**
  - For the operation of the fire detectors in critical environments, danger of frost formation or moisture condensation, e.g. in cold storage houses, attics, loading ramps, cheese storage cellars, etc.
  - Optimum function of the detector heating is only ensured with the base attachment humid FDB293
  - The temperature of the detector is increased by approx. $2^\circ$ in relation to the ambient temperature, so that moisture condensation is prevented
  - Detector heating is fixed to the detector base with a spring-loaded catch

- **Detector locking device FDBZ293**
  - To protect the detector against theft

- **Base attachment FDB291**
  - For the supply of surface-mounted lines $>\varnothing 6$ mm
  - Detector base FDB221 fixed with spring-loaded catch

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<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detector base height</td>
<td>25 mm</td>
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<tr>
<td>Height with inserted detector</td>
<td>60 mm</td>
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<tr>
<td>Opening for cable entry</td>
<td></td>
</tr>
<tr>
<td>Mounting slots min.</td>
<td>46 mm, max. 90 mm</td>
</tr>
</tbody>
</table>
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- **Base attachment humid FDB293 with seal**
  - For higher IP category
  - For mounting in humid or wet environments
  - Detector base FDB221 fixed with spring-loaded catch
  - When the detector heating unit is used

  ![Base attachment humid FDB293 with seal](image)

- **Protective cages DBZ1194**
  - For the protection of the detector against damage
  - Can only be used together with the base attachment humid FDB293

  ![Protective cages DBZ1194](image)

- **Protective cages FDBZ294**
  - To protect the detector from large electromagnetic fields
  - Can only be used together with the base attachment humid FDB293

  ![Protective cages FDBZ294](image)
Detector dust cap FDZ291
- To cover the detector, for the protection against dust during construction work

Technical data

Detector bases FDB221
- Conductor cross section
  - Connecting terminals in detector base 0.2... 1.5 mm²
  - Auxiliary terminals 1.0... 2.5 mm²
  - Micro terminals 0.28... 0.5 mm²
- Operating temperature
- Storage temperature
- Humidity according to data sheet detectors
- Protection category EN60529 / IEC529
- Color pure white, RAL 9010

Detector heating FDBH291
- Operating voltage (normal operation) 20... 30 VDC
- Operating current 35... 55 mA
- Operating temperature -30... +40 °C
- Storage temperature -30... +60 °C
- Humidity ≤95 % rel.

Details for ordering

<table>
<thead>
<tr>
<th>Type</th>
<th>Part no</th>
<th>Designation</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detector bases</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>FDB221</td>
<td>A5Q00001664</td>
<td>Detector base addressable</td>
<td>0.026 kg</td>
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<tr>
<td>FDB291</td>
<td>A5Q000002621</td>
<td>Designation plate (10x)</td>
<td>0.034 kg</td>
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<tr>
<td>DBZ1193A</td>
<td>4864330001</td>
<td>Detector designation plate (10x)</td>
<td>0.076 kg</td>
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<tr>
<td>FDBH291</td>
<td>A5Q00004439</td>
<td>Detector heating incl. micro terminals</td>
<td>0.039 kg</td>
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<tr>
<td>DBZ1190-AA</td>
<td>4677080001</td>
<td>Micro terminals 0.28... 0.5 mm²</td>
<td>0.001 kg</td>
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<tr>
<td>DBZ1190-AB</td>
<td>4942340001</td>
<td>Auxiliary terminals 1.0... 2.5 mm²</td>
<td>0.007 kg</td>
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<tr>
<td>FDBZ293</td>
<td>A5Q00005035</td>
<td>Detector locking device (2 hexagonal key, 100 hexagonal socket pins)</td>
<td>0.035 kg</td>
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<tr>
<td>FDB291</td>
<td>A5Q00001603</td>
<td>Base attachment</td>
<td>0.035 kg</td>
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<tr>
<td>FDB293</td>
<td>A5Q00003945</td>
<td>Base attachment wet</td>
<td>0.320 kg</td>
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<td>DBZ1194</td>
<td>4677110001</td>
<td>Protective cage</td>
<td>0.176 kg</td>
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<td>FDBZ294</td>
<td>A5Q00023040</td>
<td>EMC Protective cage</td>
<td>0.144 kg</td>
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<td>FDBZ291</td>
<td>A5Q00004814</td>
<td>Detector dust cap</td>
<td>0.005 kg</td>
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<td>-</td>
<td>A5Q00004478</td>
<td>Metal screwed cable gland M20 x 1.5</td>
<td>0.039 kg</td>
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