Translation of the original instructions

1  Further applicable documents
   All available documents for the product ➞ www.festo.com/pk.
   ➞ Assembly instructions for proximity sensor

2  Safety

2.1  Safety instructions
   - Before carrying out any work on the product, switch off the compressed air
     supply and secure it against being switched back on.
   - Protect the positioning range from access.
   - Keep foreign objects out of the positioning range.

2.2  Intended use
   Recording lateral forces on the yoke plate for clamping, press-fitting, feeding or as
   protection against rotation.

3  Further information
   Characteristic curves and permissible limits ➞ www.festo.com/catalogue
   Accessories (e.g. slot cover ABP) ➞ www.festo.com/catalogue
   Dimensions of guided drive ➞ www.festo.com/catalogue

4  Product range overview

4.1  Included in delivery

   1  Guided drive (1x)
   2  Centring sleeve (4x)

Fig. 1

4.2  Not included in the delivery

   3  Screw (2...6x)

Fig. 2

5  Mounting

5.1  Assembly conditions
   - Observe the characteristic curves and permissible limits ➞ www.festo.com/catalogue.
   - Handle the guided drive in such a way that the guide rods and piston rod are not damaged.
   - Ensure that the surfaces (H) and (I) are flat.
   - Install the guided drive without deformation.

Fig. 3

Fig. 4
   Required evenness precision of the assembly surface (I) of the payload in case of
   the GF variants only:
   DFM-12 ... 20 = 0.02 mm
   DFM-25 ... 100 = 0.05 mm
   If the evenness precision is not complied with, the guide rods may become
   jammed.

5.2  Assembly variants
   Flat from above
   Laterally from underneath
   Via end face
   If the guide rods protrude in the retracted state:
   - Make sure there is free passage for the guide rods, e.g. through cut-outs in
     the assembly surface (H).

Fig. 5

Fig. 6

Fig. 7

Fig. 8
5.3 Mounting

Select mounting accessories

1. Use the following screws 3 with a screw-in length of approx. 1.5 x d and centring sleeves 2, according to the type of assembly:

<table>
<thead>
<tr>
<th>DFM</th>
<th>Flat from above</th>
<th>Flat from underneath</th>
<th>Laterally from underneath/via end face</th>
<th>Yoke plate (I)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>M4 ZBH-9</td>
<td>M5 ZBH-9</td>
<td>M4 ZBH-5</td>
<td>M4 ZBH-5</td>
</tr>
<tr>
<td>16</td>
<td>M5</td>
<td>M6 ZBH-7</td>
<td>M5 ZBH-9</td>
<td>M5 ZBH-9</td>
</tr>
<tr>
<td>20</td>
<td>M5 ZBH-12</td>
<td>M6 ZBH-12</td>
<td>M6 ZBH-9</td>
<td>M6 ZBH-9</td>
</tr>
<tr>
<td>25</td>
<td>M6 ZBH-12</td>
<td>M8 ZBH-12</td>
<td>ZBH-9</td>
<td>ZBH-9</td>
</tr>
<tr>
<td>40</td>
<td>M8</td>
<td>ZBH-12</td>
<td>ZBH-9</td>
<td>ZBH-9</td>
</tr>
<tr>
<td>50</td>
<td>M8</td>
<td>ZBH-12</td>
<td>ZBH-12</td>
<td>ZBH-12</td>
</tr>
<tr>
<td>63</td>
<td>M8</td>
<td>M10</td>
<td>ZBH-12</td>
<td>ZBH-12</td>
</tr>
<tr>
<td>80</td>
<td>M5 ZBH-15</td>
<td>M12 ZBH-15</td>
<td>ZBH-15</td>
<td>ZBH-15</td>
</tr>
<tr>
<td>100</td>
<td>M10 ZBH-15</td>
<td>ZBH-15</td>
<td>ZBH-15</td>
<td>ZBH-15</td>
</tr>
</tbody>
</table>

Tab. 1 Mounting accessories

2. Mount according to load, size and stroke length, but using at least 2 screws 3.

Provide centring holes

Fig. 9

- Provide centring holes for the centring sleeves 2 on the surfaces (H) and (I). Required dimensions of the guided drive (fig. 3 Further information).

<table>
<thead>
<tr>
<th>ZBH</th>
<th>5</th>
<th>7</th>
<th>9</th>
<th>12</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>5</td>
<td>7</td>
<td>9</td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td>D1 max</td>
<td>1.4</td>
<td>1.4</td>
<td>1.9</td>
<td>2.4</td>
<td>2.9</td>
</tr>
</tbody>
</table>

Tab. 2

Assembling the guided drive and payload

Fig. 10

1. Position the guided drive 1 on the assembly surface (H) using the centring sleeves 2.
2. Mount the guided drive 1 using the screws 3 (X = 1.5).
3. Position the assembly surface (I) of the payload on the yoke plate (I) using the centring sleeves 2.
4. Mount the assembly surface (I) of the payload using the screws 3 (X = 1.5).

5.4 Assembly of the proximity sensors for DFM-12

When it is sensing intermediate strokes, the proximity sensor can be at the level of a mounting hole (K) and not fastened.

- Consider the following assembly alternatives:
  - Offset the proximity sensor 4 by 6 mm within its operating path (b).
  - Rotate the proximity sensor 2 by 180°.
  - Swap the proximity sensor 4.
  - Select another permissible proximity sensor ➔ www.festo.com/catalogue.

5.5 Using a slot cover

Fig. 12

- If required, cover the sensor slots with a slot cover ABP 5, thereby fixing the cables in place ➔ Further information.)

Fig. 13

- Offset the proximity sensor 4 by 6 mm within its operating path (b).
- Rotate the proximity sensor 2 by 180°.
- Swap the proximity sensor 4.
- Select another permissible proximity sensor ➔ www.festo.com/catalogue.

Fig. 11