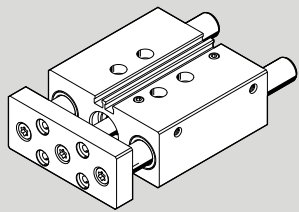


Guided drive DFM-12...-100

FESTO

Festo SE & Co. KG
Rüter Straße 82
73734 Esslingen
Germany
+49 711 347-0
www.festo.com



Instructions | Assembly

8082867
2018-02f
[8082869]



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

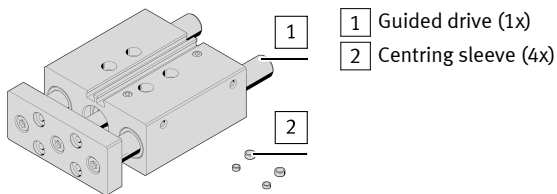


Fig. 1

4.2 Not included in the delivery

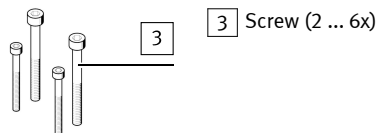


Fig. 2

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.

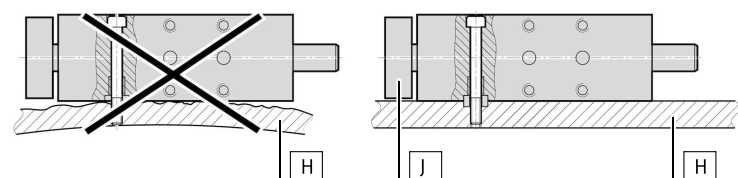


Fig. 3

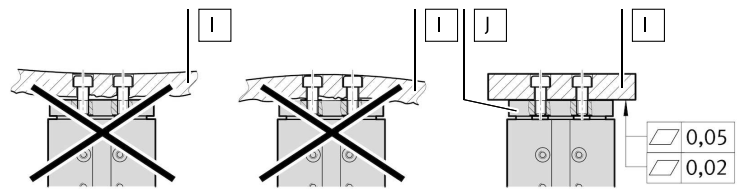


Fig. 4

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

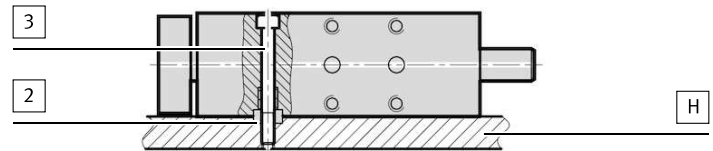


Fig. 5

Flat from underneath

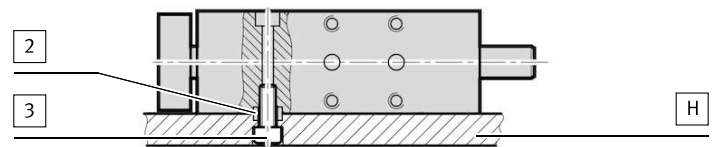


Fig. 6

Laterally from underneath

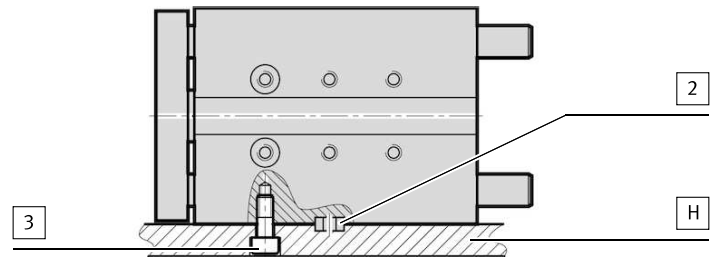


Fig. 7

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).

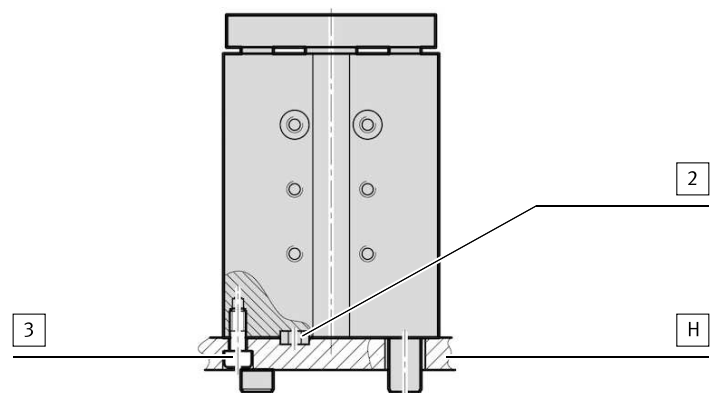


Fig. 8

5.3 Mounting

Select mounting accessories

- Use the following screws [3] with a screw-in length of approx. $1.5 \times d$ and centring sleeves [2], according to the type of assembly:

DFM	Flat from above		Flat from underneath		Laterally from underneath/via end face		Yoke plate (J)	
12	M4	ZBH-9	M5	ZBH-9	M4	ZBH-5	M4	ZBH-5
16					M5		M5	
20	M5	ZBH-9	M6	ZBH-9	M6	ZBH-7	M6	ZBH-9
25					M6		M6	
32	M6	ZBH-12	M8	ZBH-12	M8	ZBH-9	M8	ZBH-12
40					M8		M8	
50	M8	ZBH-12	M10	ZBH-12	M10	ZBH-12	M8	ZBH-12
63					M10		M10	
80	M10	ZBH-15	M12	ZBH-15	M12	ZBH-15	M10	ZBH-15
100					M12		M12	

Tab. 1 Mounting accessories

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

Provide centring holes

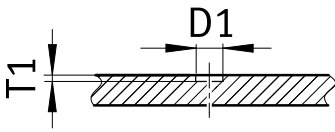


Fig. 9

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

ZBH		5	7	9	12	15
∅ D1 H7	[mm]	5	7	9	12	15
T1 min.	[mm]	1.4	1.4	1.9	2.4	2.9

Tab. 2

Assembling the guided drive and payload

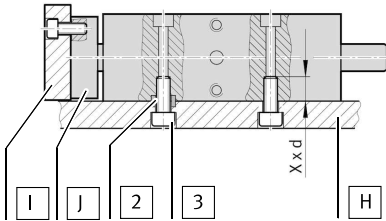


Fig. 10

- Position the guided drive [1] on the assembly surface (H) using the centring sleeves [2].
- Mount the guided drive [1] using the screws [3] ($X \approx 1.5$).
- Position the assembly surface (I) of the payload on the yoke plate (J) using the centring sleeves [2].
- Mount the assembly surface (I) of the payload using the screws [3] ($X \approx 1.5$).

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

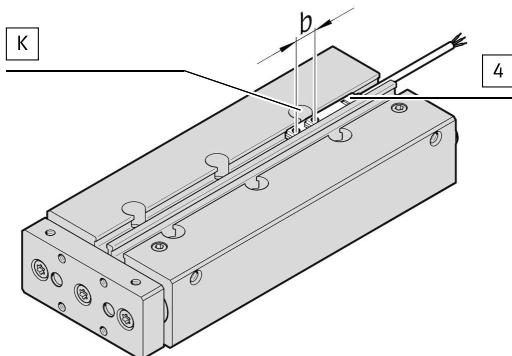


Fig. 11

- Offset the proximity sensor [4] by 6 mm within its operating path (b).

Rotate the proximity sensor

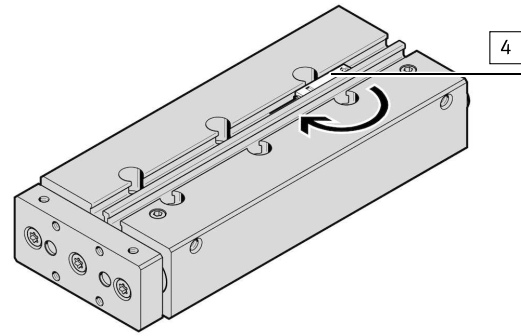


Fig. 12

- Rotate the proximity sensor [4] by 180°.

Swap the proximity sensor

- Select another permissible proximity sensor → www.festo.com/catalogue.

5.5 Using a slot cover

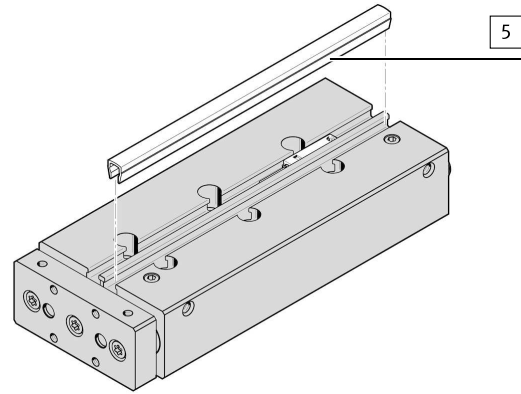


Fig. 13

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