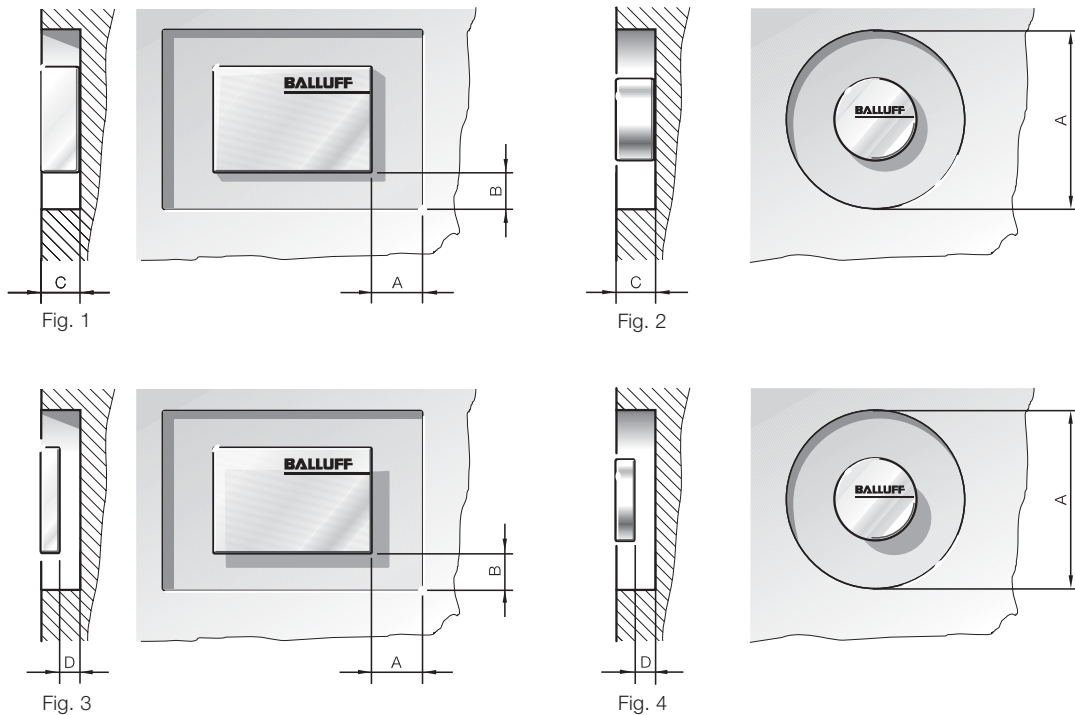


Installation in Steel Clear zone dimensions for components with rod antenna or air coil.

data carriers	Fig.	Dimensions (in mm)			
		A	B	C	D
BIS C-100-05/A	-	0	0	0	0
BIS C-104-__/_/A	-	0	0	0	0
BIS C-108-__/_/L	-	0	0	0	0
BIS C-117-05/A	-	0	0	0	0
BIS C-117-05/L	4	60	-	-	20
BIS C-122-04/L	-	0	0	0	0
BIS C-127-05/L	3	40	40	-	20
BIS C-128-__/_/L	4	60	-	-	20
BIS C-130-05/L	4	70	-	-	2
BIS C-150-__/_/A	1	20	20	22	-

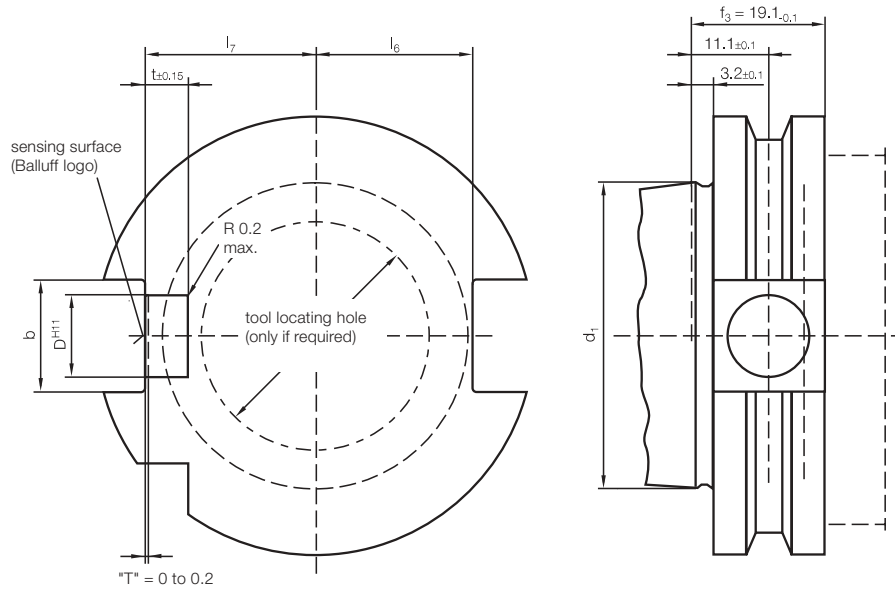
read/write heads	Fig.	Dimensions (in mm)		
		A	B	C
BIS C-300	-	0	0	0
BIS C-302	-	0	0	0
BIS C-305	-	0	0	0
BIS C-306	-	0	0	0
BIS C-310	2	60	-	13
BIS C-313	-	-	-	-
BIS C-315	-	0	0	0
BIS C-318	1	50	50	30
BIS C-319	2	50	-	35
BIS C-350	1	60	50	60
BIS C-351	1	100	60	50
BIS C-352	1	100	60	50

Note Depending on the combination of read/write head and data carrier, clear zone dimension A and B should always be selected for the larger of the components.



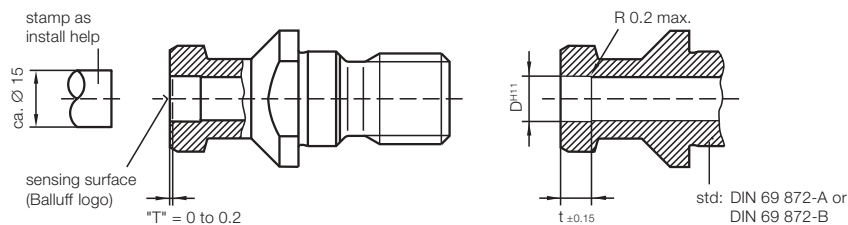
**Installation
in Taper**

Taper DIN 69 871-A	data carriers BIS C-122		data carriers BIS C-122 with Adapter BIS C-122-AD-2		data carriers BIS C-122 with Adapter BIS C-122-AD-1		d_1	b^{H12}	$l_6 \overset{0}{-0,4}$	$l_7 \overset{0}{-0,4}$
	D^{H11}	$t_{\pm 0,15}$	D^{H11}	$t_{\pm 0,15}$	D^{H11}	$t_{\pm 0,15}$				
Nr. 30	10	4.65	12	6.15	12	8.15	31.75	16.1	16.4	19
Nr. 40	10	4.65	12	6.15	12	8.15	44.45	16.1	22.8	25
Nr. 45	10	4.65	12	6.15	12	8.15	57.15	19.3	29.1	31.3
Nr. 50	10	4.65	12	6.15	12	8.15	69.85	25.7	35.5	37.7



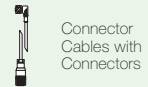
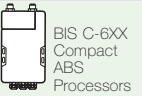
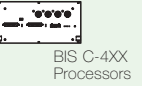
**Installation
in Retention Knob**

Taper DIN 69 871-A	data carriers BIS C-122		data carriers BIS C-122 with Adapter BIS C-122-AD-2		data carriers BIS C-122 with Adapter BIS C-122-AD-1	
	D^{H11}	$t_{\pm 0,15}$	D^{H11}	$t_{\pm 0,15}$	D^{H11}	$t_{\pm 0,15}$
Nr. 30	-	-	-	-	-	-
Nr. 40	10	4.65	-	-	-	-
Nr. 45	10	4.65	12	6.15	12	8.15
Nr. 50	10	4.65	12	6.15	12	8.15



Installation

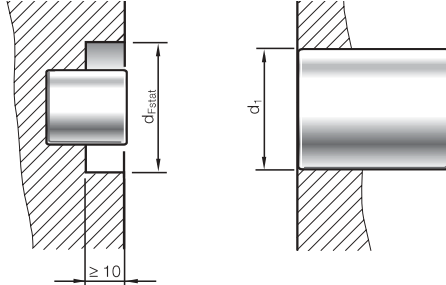
1. Degrease gluing surfaces.
2. Apply a bead of glue (e. g. UHU-Plus 300) approximately 3 mm wide around the perimeter of the data carrier housing. Note manufacturer's instructions!
3. Press in data carrier housing by hand. Note dimension "T"!
4. Remove excess glue.
5. Allow to harden.



**Installation in
Aluminum**

**With clear Zone,
Static Operation**

In order to ensure static operation with no limitations, a clear zone around the smaller of the two communications partners must be created (data carrier or read/write head).



For the diameter of the clear zone, calculate
 $d_{Fstat} \geq d_1 + \Delta_M$

Example:

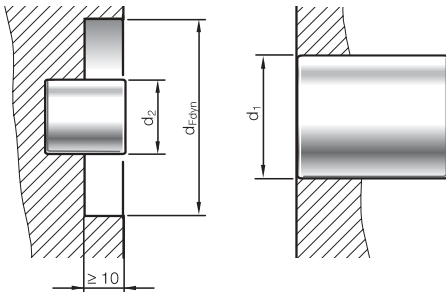
$$d_1 = 30 \text{ mm}$$

$$\Delta_M = \pm 3 \text{ mm} = 6 \text{ mm}$$

$$d_{Fstat} \geq 30 \text{ mm} + 6 \text{ mm} = 36 \text{ mm}$$

**With clear Zone,
Dynamic Operation**

In order to ensure dynamic operation with no limitations, a clear zone around the smaller of the two communications partners must be created (data carrier or read/write head).



For the diameter of the clear zone d_{Fdyn}
calculate:

in direction of motion: $d_{Fdyn} \geq 2d_1 + d_2$

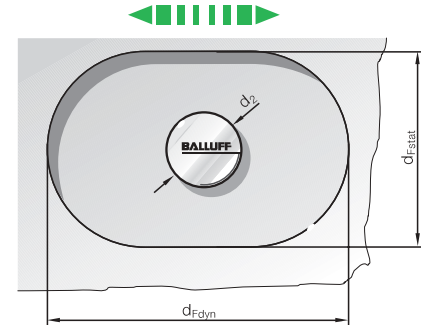
in cross-direction: $d_{Fstat} \geq d_1 + \Delta_M$

Example:

$$d_1 = 30 \text{ mm}$$

$$d_2 = 16 \text{ mm}$$

$$d_{Fdyn} \geq 2 \times 30 \text{ mm} + 16 \text{ mm} = 76 \text{ mm}$$



**No clear Zone,
Static Operation**

Permissible axial offset: $\pm 0.2 \text{ mm}$
(no dynamic operation possible)

Note

d_1 = diameter of the larger,
 d_2 = diameter of the smaller
communications partner,
 Δ_M = axial offset