

Fast assembly concealed hinge with integrated Silent System

- Sensys 8645i
- Opening angle 110°



- Concealed hinge with clip on assembly and integrated Silent System
- Quality grades under EN 15570, Level 3
- For door thickness 15 - 22 mm
- Cup diameter 35 mm
- Cup depth 12.8 mm
- Integrated overlay adjustment + 2 mm / - 2 mm
- Integrated depth adjustment + 3 mm / - 2 mm
- Height adjustment at mounting plate
- Material of hinge arm: Steel, nickel-plated
- Material of hinge cup: Steel, nickel-plated

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Cup assembly	Drilling pattern	Overlay	Half overlay	Inset	PU
		Basis B 12.5 mm (Cranking 0 mm)	Basis B 3 mm (Cranking 9.5 mm)	Basis B - 4 mm (Cranking 16.5 mm)	
Screw on type TH 52		9 071 205	9 071 206	9 071 207	200 ea.
Press in type TH 53		9 071 208 *	9 071 209 *	9 071 210 *	200 ea.
Flash fast assembly TH 54		9 071 211	9 071 212	9 071 213	200 ea.
Fix fast assembly TH 55		9 071 220	9 071 221	9 071 222	200 ea.
Screw on type TB 52		9 071 223	9 071 224	9 071 225	200 ea.
Press in type TB 53		9 071 226	9 071 227	9 071 228	200 ea.
Fix fast assembly TB 55		9 071 238	9 071 239	9 071 240	200 ea.

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Minimum reveal per door

Door thickness mm	Cup distance C mm						
	3.0	4.0	4.5	5.0	6.0	7.0	
15	0.2	0.2	0.2	0.2	0.2	0.2	
16	0.3	0.3	0.3	0.3	0.3	0.3	
17	0.4	0.4	0.4	0.4	0.4	0.4	
18	0.6	0.6	0.6	0.6	0.6	0.5	
19	0.8	0.8	0.8	0.8	0.7	0.7	
20	1.1	1.0	1.0	1.0	1.0	0.9	
21	1.4	1.3	1.3	1.3	1.2	1.2	
22	2.2	1.8	1.7	1.6	1.6	1.5	

Please note:

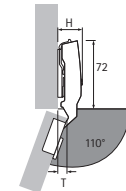
The values in the table refer to doors with an edge radius of 1 mm.

On doors with other radii, the minimum reveal changes as follows:

Radius 0 mm:
Values shown in table + 0.4 mm

Radius 3 mm:
Values shown in table - 0.6 mm

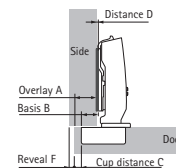
Protrusions / installation depth



Hinge protrusion H / door protrusion T for distance D = 0 mm and cup distance C = 3 mm

Door-mounting option	H mm	T mm
Overlay	25.0	8.5
Half overlay	31.0	18.0
Inset	38.0	25.0

Overlay

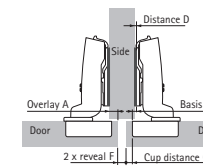


$$\text{Distance D} = \text{C} + \text{B} - \text{A}$$

$$= \text{cup distance C} + 12.5 \text{ mm} - \text{overlay A}$$

Overlay mm	Cup distance C mm						
	3.0	4.0	4.5	5.0	6.0	7.0	
Distance D mm							
10	5.5	6.5	7.0	7.5	8.5	9.5	
11	4.5	5.5	6.0	6.5	7.5	8.5	
12	3.5	4.5	5.0	5.5	6.5	7.5	
13	2.5	3.5	4.0	4.5	5.5	6.5	
14	1.5	2.5	3.0	3.5	4.5	5.5	
15	0.5	1.5	2.0	2.5	3.5	4.5	
16	0.5	1.0	1.5	2.5	3.5		
17		0.0	0.5	1.5	2.5		
18				0.5	1.5		
19					0.5		

Half overlay

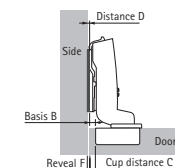


$$\text{Distance D} = \text{C} + \text{B} - \text{A}$$

$$= \text{cup distance C} + 3 \text{ mm} - \text{overlay A}$$

Overlay mm	Cup distance C mm						
	3.0	4.0	4.5	5.0	6.0	7.0	
Distance D mm							
0.5	5.5	6.5	7.0	7.5	8.5	9.5	
1.5	4.5	5.5	6.0	6.5	7.5	8.5	
2.5	3.5	4.5	5.0	5.5	6.5	7.5	
3.5	2.5	3.5	4.0	4.5	5.5	6.5	
4.5	1.5	2.5	3.0	3.5	4.5	5.5	
5.5	0.5	1.5	2.0	2.5	3.5	4.5	
6.5	0.5	1.0	1.5	2.5	3.5		
7.5		0.0	0.5	1.5	2.5		
8.5				0.5	1.5		
9.5					0.5		

Inset



$$\text{Distance D} = \text{C} + \text{B} + \text{F}$$

$$= \text{cup distance C} - 4 \text{ mm} + \text{reveal F}$$

Door thickness mm	Cup distance C mm						
	3.0	4.0	4.5	5.0	6.0	7.0	
Distance D mm							
15	0.2	0.7	1.2	2.2	3.2		
16	0.3	0.8	1.3	2.3	3.3		
17	0.4	0.9	1.4	2.4	3.4		
18	0.6	1.1	1.6	2.6	3.5		
19	0.8	1.3	1.8	2.7	3.7		
20	0.1	1.0	1.5	2.0	3.0	3.9	
21	0.4	1.3	1.8	2.3	3.2	4.2	
22	1.2	1.8	2.2	2.6	3.6	4.5	

► Advice

For mounting plates and accessories, see page 64 - 70

For mounting options, assembly information, installation instructions and quality criteria, see page 178 - 186, 209