



**Hänel Installation Instructions
Antiglare Lighting**

**Lean-Lift
Multi-Space**

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1. General instructions

Caution

These Installation Instructions are intended for trained technicians employed by the Hänel factory or by Hänel representatives.

All safety instructions and general instructions provided in the corresponding Operating Manual "MANL-LL" or "MANL-MS" and in the corresponding Installation Instructions "INST-LL" or "INST-MS" for the Lean-Lift or Multi-Space must be followed at all times.

In addition, the "Safety Rules & Requirements" provided in the Memorandum for Technical Field Service "SICHA-___" must be observed at all times.



Intended use

These Installation Instructions describe only the installation of the lighting inside or in front of the Lean-Lift or Multi-Space.

Any other use shall be considered non-compliant use.



2. Installation Requirements

1. Before starting the installation, switch off the main switch (Q2) and use a padlock to secure it from being switched on again.
2. Before entering the inside of the lift, lock the actuator of the safety switch on the service door (S3) with a padlock.
3. Secure the extractor, or cross-member and extractor, against descending or falling (refer to corresponding Operating Manual "MANL-LL" or "MANL-MS", safety instructions for Lean-Lift or Multi-Space).



3. Installation instructions: Antiglare lighting in front of the access point

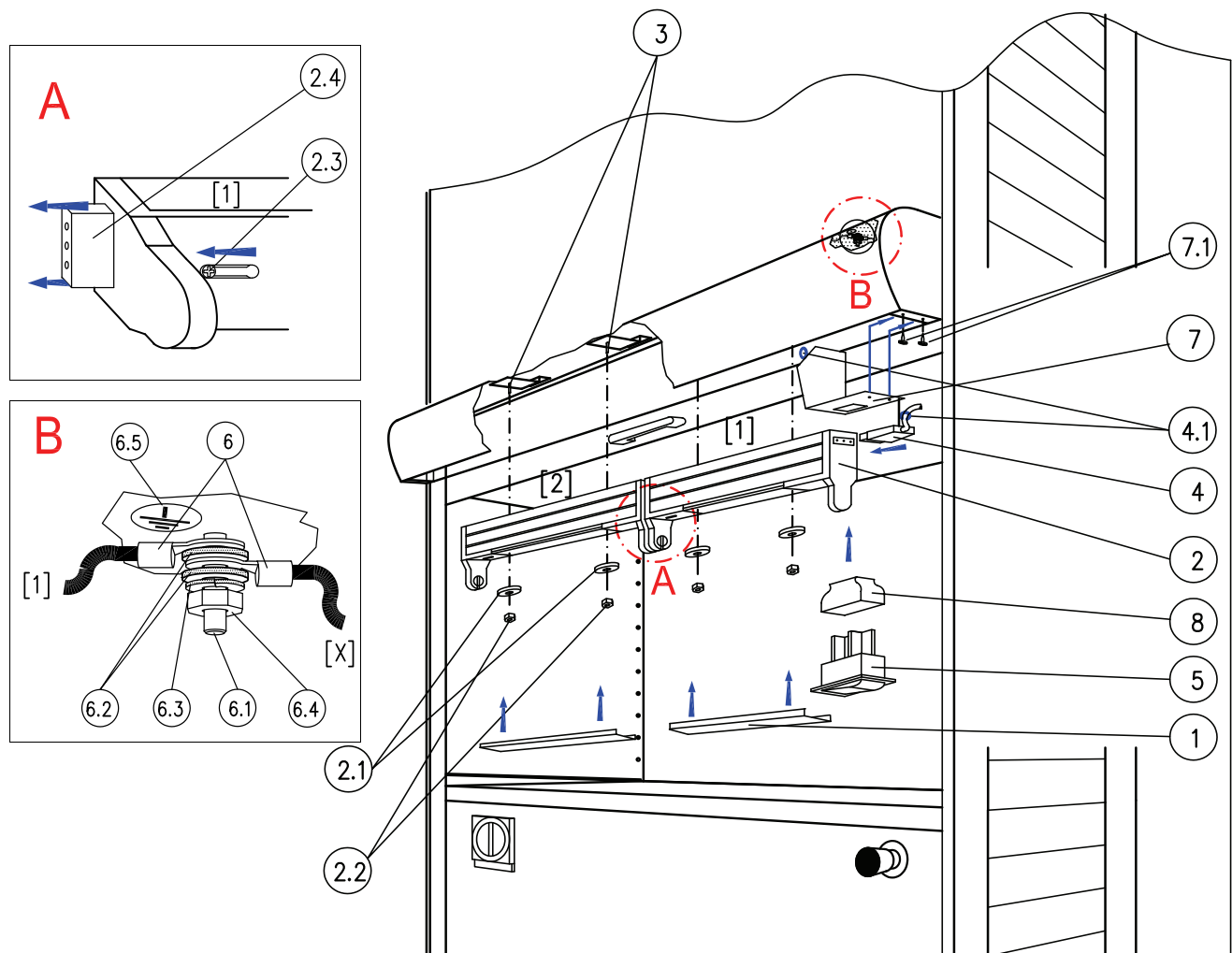


Fig. 1 Installing the antiglare lighting in front of the access point

Item	Description	Item	Description
1	Lamp cover	6.1	Earth wire bolt
2	Lamp Type 807 (lamp [1], lamp [2])	6.2	Washer DIN 125-4, brass (2x)
2.1	Washer M6 (20x1.25x6.4) (2x for each lamp)	6.3	Spring washer DIN 127-A4 (1x)
2.2	Nut DIN 934 /ISO 4032 - M4 (2x for each lamp)	6.4	Nut DIN 934/ ISO 4032 - M4 (1x)
2.3	Interconnect plug screw	6.5	Earth wire symbol
2.4	Interconnect plug	7	Switch cover plate
3	Stud bolts, welded	7.1	Sheet-metal screw DIN 7981/ ISO 7049 St 3.9x9.5(2x)
4	Connection plug	8	Finger guard
4.1	Cable bushing	[1]	Lamp 1
5	Light switch	[2]	Lamp 2
6	Earth wire connections	[X]	Power supply line

3. Installation instructions: Antiglare lighting in front of the access point (continued)

Step	Task	Note/illustration
1	Remove the lamp cover (<i>item 1</i>).	See Fig. 1
2	Fasten lamps (<i>item 2</i>) to welded stud bolts (<i>item 3</i>) with washers (<i>item 2.1</i>) and nuts (<i>item 2.2</i>). Install the lamps so that the connection plug is arranged on the left side. Slightly unscrew the screw (<i>item 2.3</i>) on lamp [1]. Push the connection plug (<i>item 2.4</i>) as far as it will go; tighten the screw (<i>item 2.3</i>).	See Fig. 1, Detail A
3	Attach the lamp cover (<i>item 1</i>).	See Fig. 1
4	Plug the connection plug (<i>item 4</i>) into lamp [1].	See Fig. 1
5	Guide the power cable and lamp interconnect cable through the switch notch in the switch cover plate (<i>item 7</i>).	
6	Connect the current-carrying lines from the wiring cabinet to the terminal block for protection against direct contact (<i>item 8</i>) (connections 2 and 5) using cable lugs. Connect the switched lines of the lamps to the terminal block for protection against direct contact (<i>item 8</i>) (connections 1 and 4) using cable lugs.	See Fig. 1 (See also lighting circuit diagram and terminal plan)
7	Attach the terminal block (<i>item 8</i>) to the connectors of the light switch.	See Fig. 1
8	Insert the light switch, with the 0 position facing down, into the switch notch from the outside.	See Fig. 1
9	Attach the protective earth cable.	See Fig. 1, Detail B
9.1	Remove the paint/coating residue around the earth wire bolt (<i>item 6.4</i>).	See Fig. 1, Detail B
9.2	Fasten the earth wire connections (<i>item 6</i>) to the earth wire bolt (<i>item 6.1</i>) with washers (<i>item 6.2</i>), spring washer (<i>item 6.3</i>) and nut (<i>item 6.4</i>) in the interior of the lighting panel as shown in Detail B.	Caution: Be careful and thorough when installing earth wire connections!
9.3	Adhere the earth wire symbol (<i>item 6.5</i>).	See Fig. 1, Detail B
10	Insert the switch cover plate (<i>item 7</i>) into the lighting panel from the inside and fasten it using 2 screws (<i>item 7.1</i>).	See Fig. 1
11	Route the power cable into the wiring cabinet according to the cable routing diagram.	See "cableLL1" and "cableLL2" for Lean-Lift See "cableMSx" for Multi-Space
12	Connect the lighting according to the circuit diagram and terminal plan.	(See also lighting circuit diagram and terminal plan X3)
13	Insert fluorescent tube into the lamp.	
14	Check correct function of lighting.	

4. Installation instructions: Antiglare lighting inside the access point

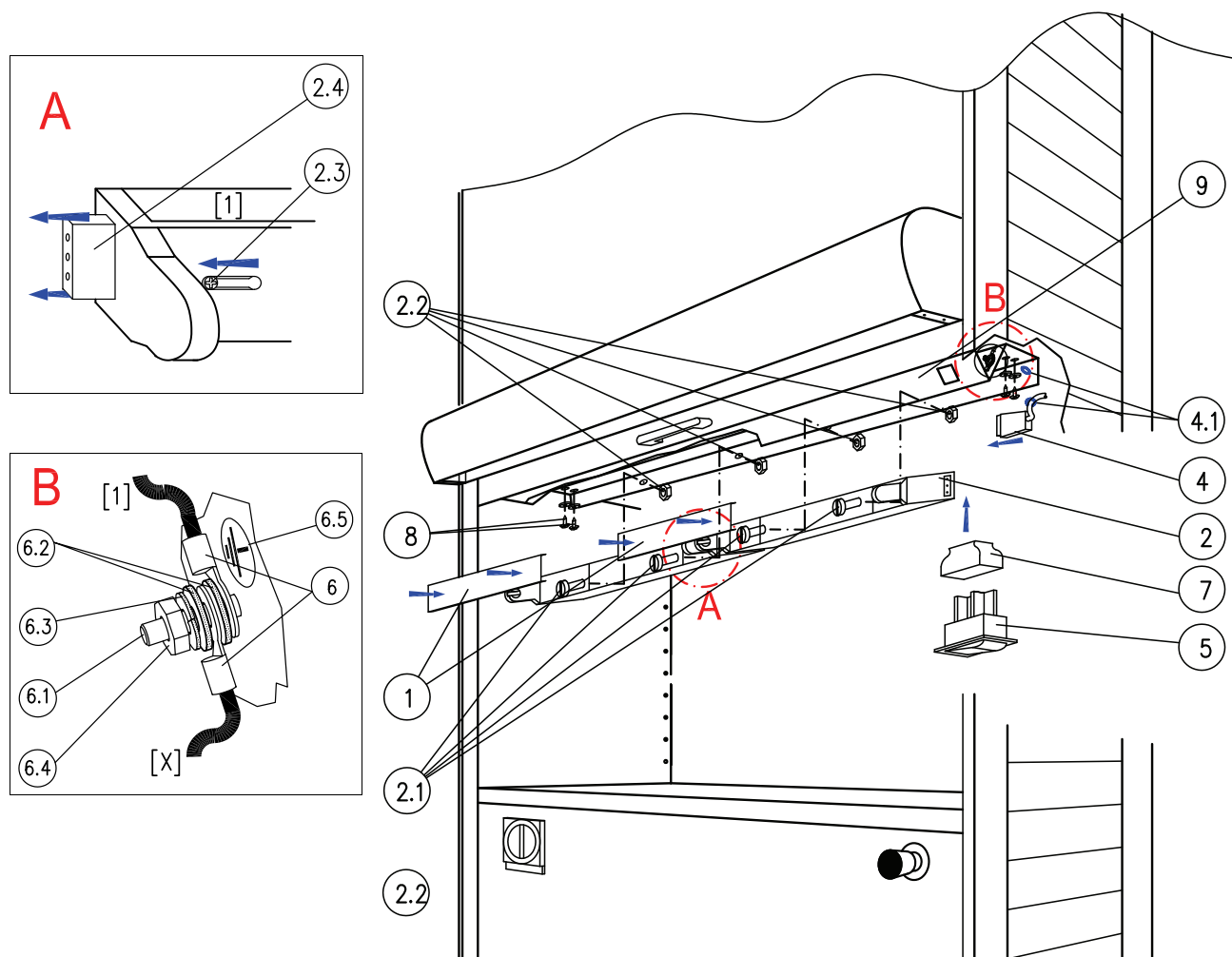


Fig. 2 Installing the antiglare lighting inside the access point

Item	Description	Item	Description
1	Lamp cover	6.1	Slotted socket head cap screw DIN 84/ ISO 1207 - M4x12, brass (1x)
2	Lamp Type 807 (lamp [1], lamp [2])	6.2	Washer DIN 125-4, brass (2x)
2.1	Countersunk screw DIN 965/ ISO 7046 - M4x10 (2x for each lamp)	6.3	Spring washer DIN 127-A4 (1x)
2.2	Hex nut DIN 934/ ISO 4032 - M4 (2x for each lamp) + Washer M6 (20x1.25x6.4) (2x for each lamp) + Spring washer DIN 127 - A4 (2x for each lamp)	6.4	Nut DIN 934/ ISO 4032 - M4 (1x)
2.3	Interconnect plug screw	6.5	Earth wire symbol
2.4	Interconnect plug	7	Finger guard
		8	Sheet-metal screw DIN 7981/ ISO 7049 St 3.9x9.5 (4x for each lighting panel)
4	Connection plug	9	Lighting panel
4.1	Cable bushing	[1]	Lamp 1
5	Light switch Type 1602.2101	[2]	Lamp 2
6	Earth wire connections	[X]	Power supply line

4. Installation instructions: Antiglare lighting inside the access point (continued)

Step	Task	Note/illustration
1	Remove the lamp cover (<i>item 1</i>).	See Fig. 2
2	Fasten lamps (<i>item 2</i>) to lighting panel (<i>item 9</i>) using 2 screws (<i>item 2.1</i>), nuts, washers and spring washers (<i>item 2.2</i>) for each. Install the lamps so that the connection plug is arranged on the left side. Slightly unscrew the screw (<i>item 2.3</i>) on lamp [1]. Push the connection plug (<i>item 2.4</i>) as far as it will go; tighten the screw (<i>item 2.3</i>).	See Fig. 2, (pre-assembled in standard version) See Fig. 2, Detail A (pre-assembled in standard version)
3	Attach the lamp cover (<i>item 1</i>).	See Fig. 2
4	Insert the lighting panel (<i>item 9</i>) into the top access point cover and fasten it using 4 screws (<i>item 8</i>).	See Fig. 2
5	Plug the connection plug (<i>item 4</i>) into lamp [1].	See Fig. 2
6	Guide the power cable and lamp interconnect cable through the switch notch in the lighting panel (<i>item 9</i>).	
7	Connect the current-carrying lines from the wiring cabinet to the terminal block for protection against direct contact (<i>item 8</i>) (connections 2 and 5) using cable lugs. Connect the switched lines of the lamps to the terminal block for protection against direct contact (<i>item 8</i>) (connections 1 and 4) using cable lugs.	See Fig. 1 (See also lighting circuit diagram and terminal plan)
8	Attach the terminal block (<i>item 8</i>) to the connectors of the light switch.	
9	Insert the light switch (<i>item 5</i>) with the 0 position facing down, all the way into the switch notch from the outside.	See Fig. 2
10	Attach the protective earth cable.	See Fig. 2, Detail B
10.1	Remove the paint around the earth wire bolt (<i>item 6.4</i>).	See Fig. 2, Detail B
10.2	Fasten the earth wire connections (<i>item 6</i>) using screw (<i>item 6.1</i>) washers (<i>item 6.2</i>), spring washer (<i>item 6.3</i>) and nut (<i>item 6.4</i>) to the interior of the lighting panel as shown in Detail B (<i>item 9</i>).	Caution: Be careful and thorough when installing earth wire connections!
10.3	Adhere the earth wire symbol (<i>item 6.5</i>).	See Fig. 2, Detail B
11	Route the connecting cable into the wiring cabinet according to the cable routing diagram.	See "cableLL1" and "cableLL2" for Lean-Lift See "cableMSx" for Multi-Space
12	Connect the connecting cable in the wiring cabinet.	(See also lighting circuit diagram and terminal plan X3)
13	Insert fluorescent tube into the lamp.	
14	Check correct function of lighting.	

5. Removing antiglare lighting

1. Before starting the removal, switch off the main switch (Q2) and use a padlock to secure it from being switched on again.
2. Before entering the inside of the lift, lock the actuator of the safety switch on the service door (S3) with a padlock.
3. Secure the extractor, or cross-member and extractor, against descending or falling (refer to corresponding Operating Manual "MANL-LL" or "MANL-MS", safety instructions for Lean-Lift or Multi-Space).
4. To remove the antiglare lighting, follow the reverse order of steps as that described previously in Chapters 3 and 4.
5. After removal, dispose of the structural components in an environmentally responsible manner (see Installation Instructions "INST-LL" or "INST-MS", Disposal instructions).



6. Annex

Revision notes

Last issue dated: 2007-10-04

- Added intended use and disposal
- Chapter 3: Item 7.1 St2.9 after St3.5
- Screws revised

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