



## **Hänel Setting Instructions Proximity switches in access point and extractor**

## **Lean-Lift Multi-Space**



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1. General instructions

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Caution

These Installation Instructions are intended for specially trained and authorised 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-S" or "INST-LW" 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" and the "Safety Rules" from the Training Auxiliary Personnel for Technical Field Service "SICHHK" must be observed!



## 2. Installation Requirements

1. Before starting the installation, secure the extractor, or cross-member with extractor, against descending or falling.



**! DANGER**

The extractor or cross-member with extractor is a suspended load that can fall.

Therefore, whenever working inside the lift, you have to lower it to ground level.

If this is not possible, you have to secure them using the locking device. (See operating manual "MANL-LL", Work inside the lift by authorised personnel - Securing the extractor or operating manual "MANL-MS", Work inside the lift by authorised personnel - Securing the cross-member with extractor).

2. Switch off the main switch (Q2) and secure it from being switched on again using a padlock.



**! DANGER**

**Risk of electrocution!**

### SAFETY INSTRUCTIONS



**The lift must be de-energised before work begins.**

- Switch off main switch (Q2).
- Secure the main switch (Q2) from being switched on again.
- Verify that the lift has been de-energised.
- Cover or block off neighbouring live parts. (Switch off external voltage source for multi-unit network and lock it using tool WZ-67)

3. Before entering the inside of the lift, secure the actuator of the safety switch on the service door (S3) with a padlock.

### SAFETY INSTRUCTIONS



**Secure the actuator latch!**

Before all work, secure the actuator latch of the service door from being switched on again using a padlock.

### 3. Installation instructions:

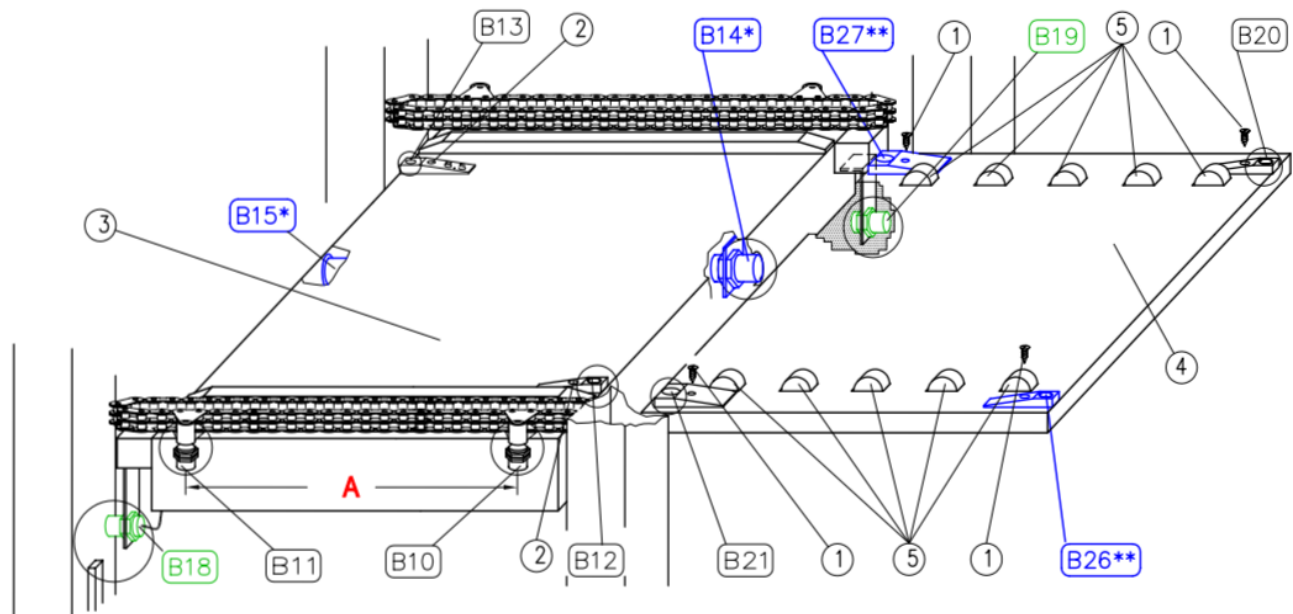


Fig. 1: Overview of proximity switches at the extractor and access point (Lean-Lift: Type /250 and Multi-Space: Type /250 with slide rail on extractor)

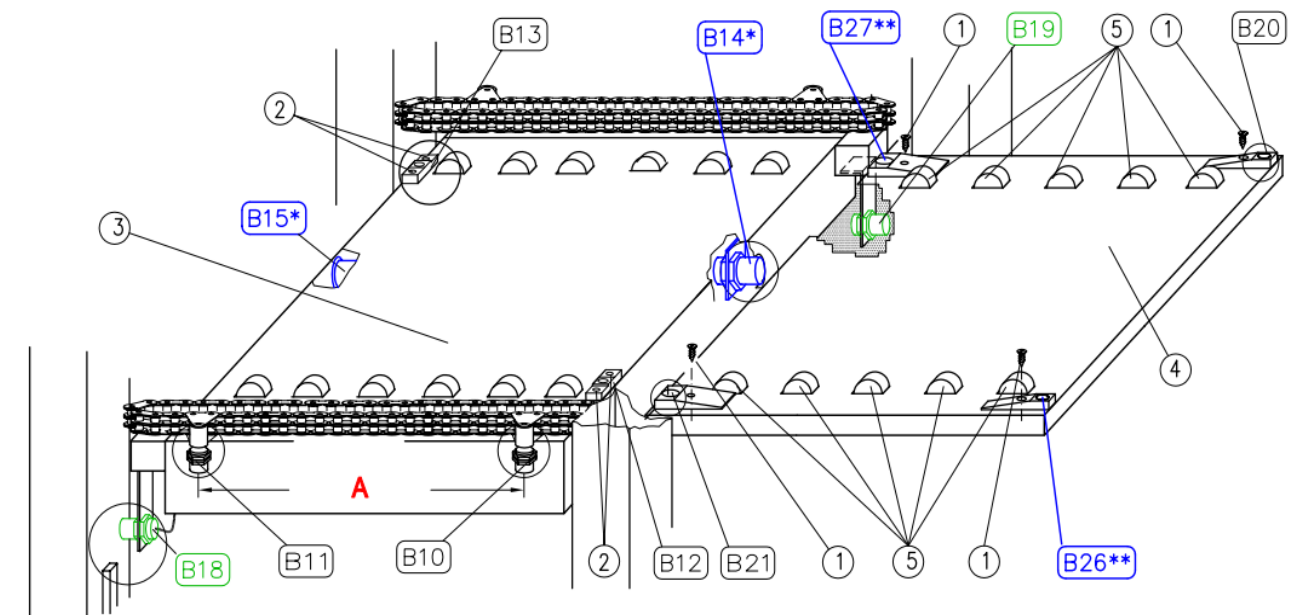


Fig. 2: Overview of proximity switches at the extractor and access point (Lean-Lift with Type width  $\leq 3260$ : Type /500 /700 /1000 and Multi-Space: Type /500 with rollers on extractor)

### 3. Installation instructions: (continued)

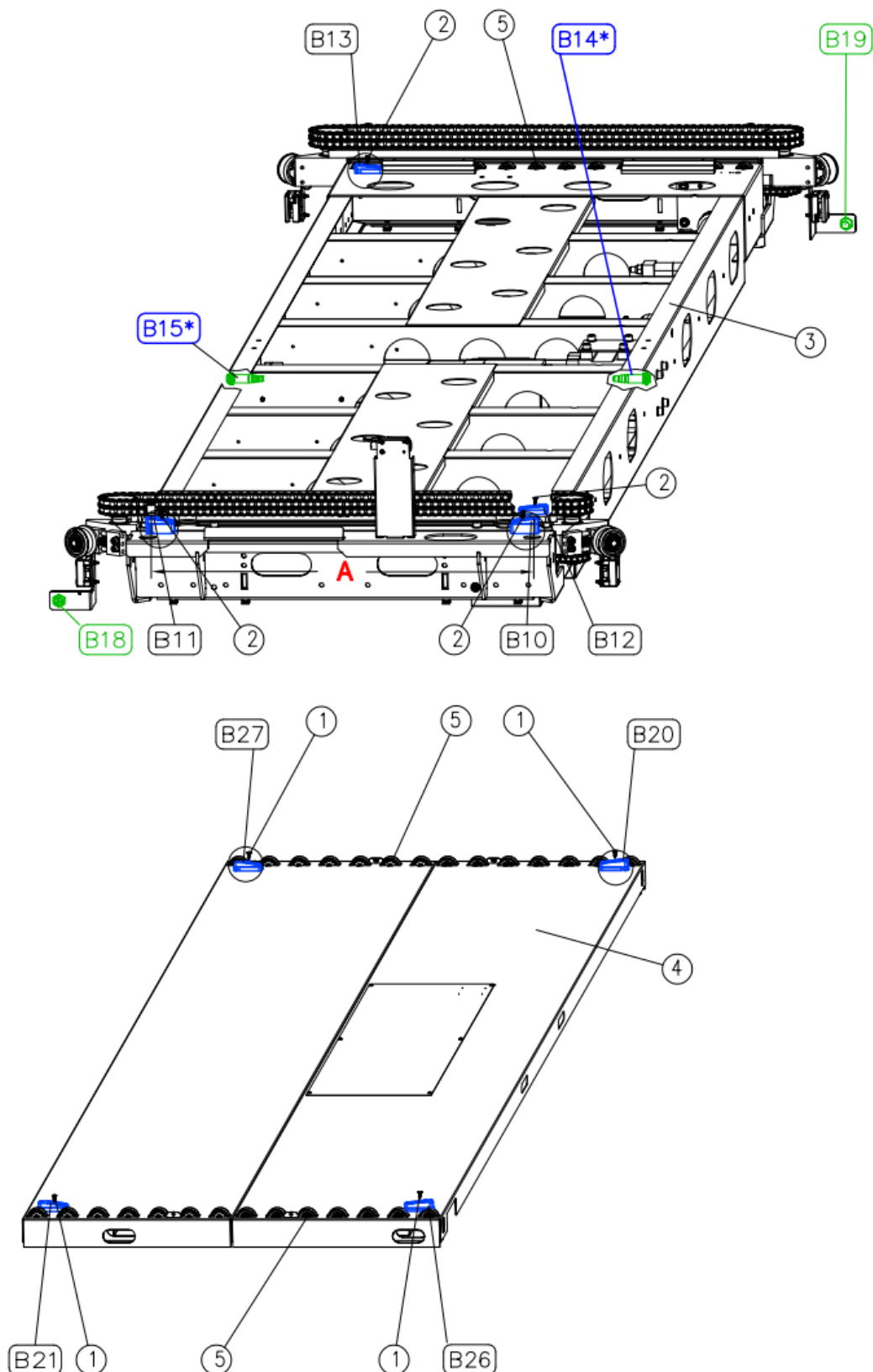


Fig. 3: Overview of proximity switches on extractor and access point (Lean-Lift with Type width > 3260)

### 3. Installation instructions: (continued)



#### Note

Proximity switches B18, B19 are installed on the cross-member of the Multi-Space. (See Fig. 4)

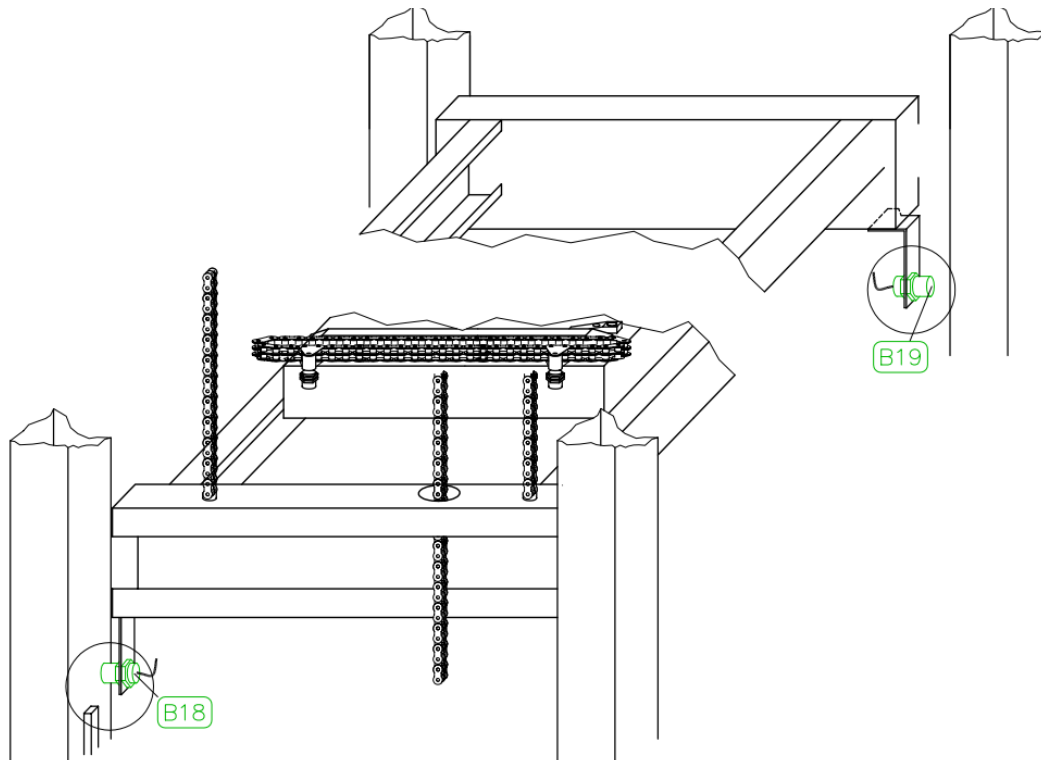


Fig. 4: Overview of proximity switches B18, B19 for Multi-Space

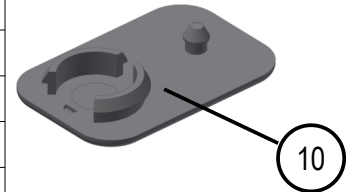
# Hänel Setting Instructions

## Proximity switches in access point and extractor

## Lean-Lift Multi-Space

### 3. Installation instructions: (continued)

| Item                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                              | Lean-Lift (Type width ≤ 3260): Countersunk sheet-metal screw ISO 7050 - St 3.9x16<br>Lean-Lift (Type width > 3260): Countersunk sheet-metal screw ISO 7050 - St 3.9x25                                                                                                                                                                                                                                                                                           |
| 2                              | Countersunk sheet-metal screw ISO 7050 - St 3.9x16                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3                              | Extractor                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4                              | Access point                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 5                              | Rollers <b>in</b> the access point:<br>- Lean-Lift (Type width ≤ 3260): Optional: Only with corresponding supplementary features<br>- Lean-Lift (Type width > 3260): In standard version<br>- Multi-Space: In standard version<br>Rollers <b>on</b> extractor:<br>- Lean-Lift (Type width ≤ 3260): In standard version for type /500; /700 and /1000<br>- Lean-Lift (Type width > 3260): In standard version<br>- Multi-Space: In standard version for type /500 |
| 6                              | <u>Reference dimension</u>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 7                              | Shim 1.5 mm (0.059") (only with B20 / B26 <b>and</b> 25 mm (0.98") spacing)                                                                                                                                                                                                                                                                                                                                                                                      |
| 8                              | Spacer 8.5 mm (0.335") (only for B21 / B27 <b>and</b> Type width > 3260)                                                                                                                                                                                                                                                                                                                                                                                         |
| 9                              | Spacer 7 mm (0.28") (only for B20 / B26 <b>and</b> Type width > 3260)                                                                                                                                                                                                                                                                                                                                                                                            |
| 10                             | Cover (only if B26 / B27 <b>not</b> present)                                                                                                                                                                                                                                                                                                                                                                                                                     |
| B...                           | Proximity switches                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>B14*</b> ,<br><b>B15*</b>   | Optional: only with 37.5 mm (1.476") or 25 mm (0.98") spacing                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>B26**</b> ,<br><b>B27**</b> | - Lean-Lift (Type width ≤ 3260): optional: only with redundancy system<br>- Lean-Lift (Type width > 3260): in standard version<br>- Multi-Space: optional: only with redundancy system                                                                                                                                                                                                                                                                           |
| Type                           | Distance <b>A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>1270</b>                    | 1270.0 mm<br>(50.00")                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>1047</b>                    | 1047.75 mm<br>(41.25")                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>825</b>                     | 825.5 mm<br>(32.50")                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>635</b>                     | 635.0 mm<br>(25.00")                                                                                                                                                                                                                                                                                                                                                                                                                                             |



# Hänel Setting Instructions

## Proximity switches in access point and extractor

# Lean-Lift Multi-Space

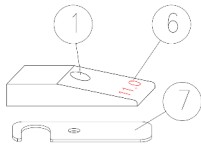
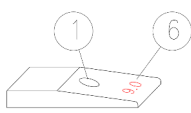
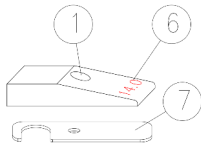
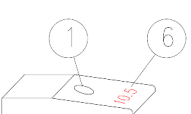
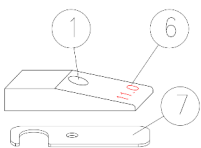
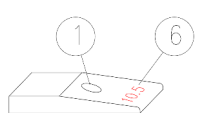
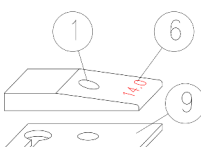
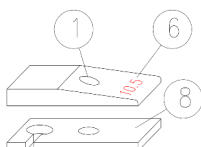
| Step | Task                                                                                                                                                                                                                                    | Notes / illustration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Fasten proximity switches B10 to B27 to the extractor ( <i>item 3</i> ) and access point ( <i>item 4</i> ).<br>(B10 to B19 are pre-assembled in standard versions; for the Lean-Lift, B18 and B19 are shipped in a transport position.) | <p>See Figs. 1, 2, 3 and 4</p>  <p><b>Caution:</b><br/>Do not subject proximity switches to strong shocks or jolts.<br/>Always use the correct abutting wedges (compare reference dimension (<i>item 6</i>) with table below).<br/><b>Note:</b> For replacement parts, proximity switches B12/13 and B20-B27 should be replaced complete with plastic wedges.<br/>If this is not possible, the proximity switch has to be fixed in place in the plastic wedge using adhesive (spare part number WZ-42).</p> |
| 2    | <p><b>Only if B26 and B27 are not present:</b></p> <p>Seal the existing holes in the access point (<i>item 4</i>) with appropriately sized covers (<i>item 10</i>).</p>                                                                 |  <p><b>General notes</b><br/>First, snap in the small locking lugs of the covers (<i>item 10</i>).<br/>If the covers (<i>item 10</i>) are removed, these may be destroyed.</p>                                                                                                                                                                                                                                                                                                                              |

# Hänel Setting Instructions

## Proximity switches in access point and extractor

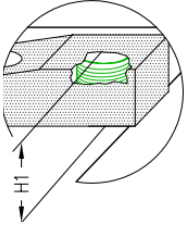
# Lean-Lift Multi-Space

### 3. Installation instructions: (continued)

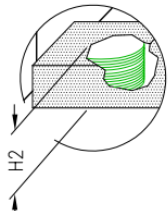
| Access point                                                                                                                                                                                                                                                                         | B20 / B26**                                                                                                                                                                                                   | B21 / B27**                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Without rollers ( <i>item 5</i> )                                                                                                                                                                                                                                                    |  <b>11.0</b>                                                                                                                 |  <b>9.0</b>                  |
| With rollers ( <i>item 5</i> )<br>(Type width ≤ 3260:<br>without automatic<br>container ejector<br><b>or</b><br>with automatic container<br>ejector without weighing<br>device<br><b>or</b><br>with automatic container<br>ejector LL-AUSZ-HL with<br>or without weighing<br>device) |  <b>14.0</b>                                                                                                                 |  <b>10.5</b>                 |
| With rollers ( <i>item 5</i> )<br>(Type width ≤ 3260:<br>with automatic container<br>ejector with weighing<br>device)                                                                                                                                                                |  <b>11.0</b>                                                                                                               |  <b>10.5</b>               |
| With rollers ( <i>item 5</i> )<br>(Type width > 3260:)                                                                                                                                                                                                                               |  <b>14.0</b><br><b>7</b>                                                                                                   |  <b>10.5</b><br><b>8.5</b> |
|                                                                                                                                                                                                                                                                                      |  <b>Note</b><br>With 25 mm (0.98") spacing and<br>type width ≤ 3260, shim with a<br>1.5 mm (0.06") shim ( <i>item 7</i> )! |                                                                                                                 |

### 3. Installation instructions: (continued)

B20 / B26\*\*



B21 / B27\*\*



| Access point                                                                                                                                                                                                                                                                                    | H1      | H2      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| Without rollers (item 5)                                                                                                                                                                                                                                                                        | 11 mm   | 9 mm    |
|                                                                                                                                                                                                                                                                                                 | 0.44 in | 0.36 in |
| With rollers (item 5)<br>(Type width ≤ 3260<br>up to calendar week 10/2011)                                                                                                                                                                                                                     | 12.5 mm | 10.5 mm |
|                                                                                                                                                                                                                                                                                                 | 0.49 in | 0.41 in |
| with rollers (item 5)<br>(type width ≤ 3260<br>from Week 11/2011 or later)<br>without automatic container ejector<br><b>or</b><br>with automatic container ejector without<br>weighing device<br><b>or</b><br>with automatic container ejector<br>LL-AUSZ-HL with or without weighing<br>device | 14.0 mm | 10.5 mm |
|                                                                                                                                                                                                                                                                                                 | 0.55 in | 0.41 in |
| with rollers (item 5)<br>with automatic container ejector with<br>weighing device                                                                                                                                                                                                               | 11 mm   | 10.5 mm |
|                                                                                                                                                                                                                                                                                                 | 0.44 in | 0.41 in |
| With rollers (item 5)<br>(Type width > 3260)                                                                                                                                                                                                                                                    | 14 mm   | 10.5 mm |
|                                                                                                                                                                                                                                                                                                 | 0.55 in | 0.41 in |

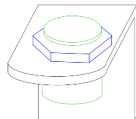
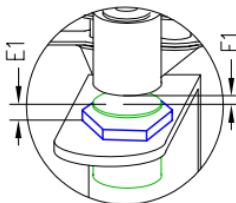
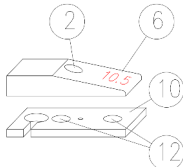
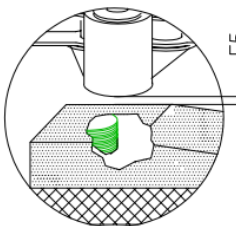
# Hänel Setting Instructions

## Proximity switches in access point and extractor

# Lean-Lift

## Multi-Space

### 3. Installation instructions: (continued)

| Extractor                                              | B10 / B11                                                                                                                                                                                                                              |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|------------------------------------------------------|--------------------|--------------------------------------------------------|--------------------|------------------------------|--------------------|----|--------------------------------------------------------|---------------------------|----------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------|
| Type width ≤ 3260                                      |                                                                                                                                                       | <p>B10 / B11</p>    | <table><tr><td colspan="2"><b>Setting dimension:</b></td></tr><tr><td>E1 (for version of drive catch <u>offset</u> on top)</td><td>12.0 mm<br/>0.47 in</td></tr><tr><td>E1 (for version of drive catch <u>straight</u> on top)</td><td>14.5 mm<br/>0.57 in</td></tr><tr><td colspan="2"><b>Functional dimension:</b></td></tr><tr><td>F1</td><td>4.0 mm<br/>0.16 in</td></tr><tr><td colspan="2"><b>Tightening torque:</b></td></tr><tr><td colspan="2">10.0 Nm (7.375 lbf ft)</td></tr></table>                                                                                                                                                                                                                                                                                                                                 | <b>Setting dimension:</b>    |  | E1 (for version of drive catch <u>offset</u> on top) | 12.0 mm<br>0.47 in | E1 (for version of drive catch <u>straight</u> on top) | 14.5 mm<br>0.57 in | <b>Functional dimension:</b> |                    | F1 | 4.0 mm<br>0.16 in                                      | <b>Tightening torque:</b> |                            | 10.0 Nm (7.375 lbf ft) |                                                                                                                                                                                                                                        |    |                                                                                |
| <b>Setting dimension:</b>                              |                                                                                                                                                                                                                                        |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| E1 (for version of drive catch <u>offset</u> on top)   | 12.0 mm<br>0.47 in                                                                                                                                                                                                                     |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| E1 (for version of drive catch <u>straight</u> on top) | 14.5 mm<br>0.57 in                                                                                                                                                                                                                     |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| <b>Functional dimension:</b>                           |                                                                                                                                                                                                                                        |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| F1                                                     | 4.0 mm<br>0.16 in                                                                                                                                                                                                                      |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| <b>Tightening torque:</b>                              |                                                                                                                                                                                                                                        |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| 10.0 Nm (7.375 lbf ft)                                 |                                                                                                                                                                                                                                        |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| Type width > 3260                                      |  <p>10.5</p>                                                                                                                                        | <p>B10 / B11</p>  | <table><tr><td colspan="2"><b>Functional dimension:</b></td></tr><tr><td>F5 (25 mm (0.98") or 75 mm (2.95") spacing)</td><td>5.2 mm<br/>0.20 in</td></tr><tr><td>F5 (37.5 mm (1.48") spacing)</td><td>7.2 mm<br/>0.28 in</td></tr><tr><td><b>Item</b></td><td><b>Description</b></td></tr><tr><td>2</td><td>Countersunk sheet-metal screw ISO 7050 - ST 3.9x16-C-H</td></tr><tr><td>6</td><td><u>Reference dimension</u></td></tr><tr><td>10</td><td>Spacer 8.5 mm (0.33") (only for B10/B11 <b>and</b> type width &gt; 3260 <b>and</b> 25 mm (0.98") or 75 mm (2.95") spacing)<br/><br/>Spacer 19 mm (0.75") (only for B10/B11 <b>and</b> type width &gt; 3260 <b>and</b> 37.5 mm (1.48") spacing)</td></tr><tr><td>12</td><td>Cross recessed pan head sheet-metal screw without tip ISO 7049 - ST 3.9x16-F-H</td></tr></table> | <b>Functional dimension:</b> |  | F5 (25 mm (0.98") or 75 mm (2.95") spacing)          | 5.2 mm<br>0.20 in  | F5 (37.5 mm (1.48") spacing)                           | 7.2 mm<br>0.28 in  | <b>Item</b>                  | <b>Description</b> | 2  | Countersunk sheet-metal screw ISO 7050 - ST 3.9x16-C-H | 6                         | <u>Reference dimension</u> | 10                     | Spacer 8.5 mm (0.33") (only for B10/B11 <b>and</b> type width > 3260 <b>and</b> 25 mm (0.98") or 75 mm (2.95") spacing)<br><br>Spacer 19 mm (0.75") (only for B10/B11 <b>and</b> type width > 3260 <b>and</b> 37.5 mm (1.48") spacing) | 12 | Cross recessed pan head sheet-metal screw without tip ISO 7049 - ST 3.9x16-F-H |
| <b>Functional dimension:</b>                           |                                                                                                                                                                                                                                        |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| F5 (25 mm (0.98") or 75 mm (2.95") spacing)            | 5.2 mm<br>0.20 in                                                                                                                                                                                                                      |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| F5 (37.5 mm (1.48") spacing)                           | 7.2 mm<br>0.28 in                                                                                                                                                                                                                      |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| <b>Item</b>                                            | <b>Description</b>                                                                                                                                                                                                                     |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| 2                                                      | Countersunk sheet-metal screw ISO 7050 - ST 3.9x16-C-H                                                                                                                                                                                 |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| 6                                                      | <u>Reference dimension</u>                                                                                                                                                                                                             |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| 10                                                     | Spacer 8.5 mm (0.33") (only for B10/B11 <b>and</b> type width > 3260 <b>and</b> 25 mm (0.98") or 75 mm (2.95") spacing)<br><br>Spacer 19 mm (0.75") (only for B10/B11 <b>and</b> type width > 3260 <b>and</b> 37.5 mm (1.48") spacing) |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |
| 12                                                     | Cross recessed pan head sheet-metal screw without tip ISO 7049 - ST 3.9x16-F-H                                                                                                                                                         |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                      |                    |                                                        |                    |                              |                    |    |                                                        |                           |                            |                        |                                                                                                                                                                                                                                        |    |                                                                                |

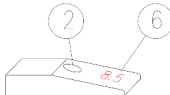
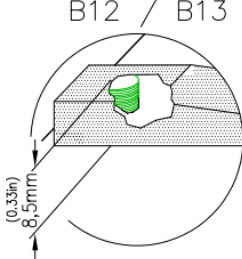
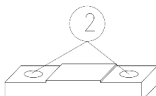
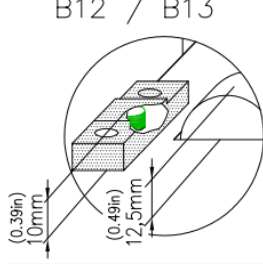
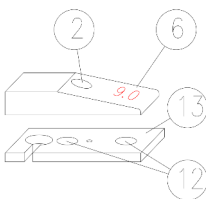
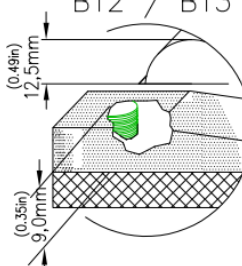
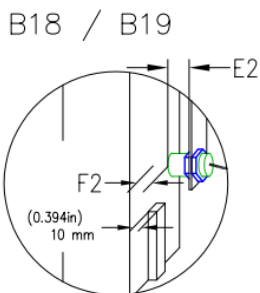
# Hänel Setting Instructions

## Proximity switches in access point and extractor

# Lean-Lift

## Multi-Space

### 3. Installation instructions: (continued)

| Extractor                                     | B12 / B13                                                                                                                             |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|----|-----------------------------------------------------------|---|----------------------------|-----------------------|-----------------------------------------------------------------------------------|----|-----------------------------------------------------------------|--|---------|--------------------|--|------------------------|--|
| Without rollers (item 5)                      | <div><div></div><div>8.5</div></div>                 | <div>B12 / B13</div> <div></div>   | <table><tr><th>Item</th><th>Description</th></tr><tr><td>2</td><td>Countersunk sheet-metal screw<br/>ISO 7050 - ST 3.9x16-C-H</td></tr><tr><td>6</td><td><u>Reference dimension</u></td></tr><tr><td>12</td><td>Cross recessed pan head sheet-metal screw without tip<br/>ISO 7049 - ST 3.9x16-F-H</td></tr><tr><td>13</td><td>Spacer 8.5 mm (0.335") (only for B12/B13 and Type width &gt; 3260)</td></tr></table> | Item               | Description | 2  | Countersunk sheet-metal screw<br>ISO 7050 - ST 3.9x16-C-H | 6 | <u>Reference dimension</u> | 12                    | Cross recessed pan head sheet-metal screw without tip<br>ISO 7049 - ST 3.9x16-F-H | 13 | Spacer 8.5 mm (0.335") (only for B12/B13 and Type width > 3260) |  |         |                    |  |                        |  |
| Item                                          | Description                                                                                                                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
| 2                                             | Countersunk sheet-metal screw<br>ISO 7050 - ST 3.9x16-C-H                                                                             |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
| 6                                             | <u>Reference dimension</u>                                                                                                            |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
| 12                                            | Cross recessed pan head sheet-metal screw without tip<br>ISO 7049 - ST 3.9x16-F-H                                                     |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
| 13                                            | Spacer 8.5 mm (0.335") (only for B12/B13 and Type width > 3260)                                                                       |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
| With rollers (item 5)<br>(Type width ≤ 3260:) | <div><div></div></div>                               | <div>B12 / B13</div> <div></div>   |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
| With rollers (item 5)<br>(Type width > 3260:) | <div><div></div><div>9.0</div><div>8.5</div></div> | <div>B12 / B13</div> <div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
| Extractor                                     | B18 / B19                                                                                                                             |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
|                                               |                                                                                                                                       | <div>B18 / B19</div> <div></div> | <table><tr><th colspan="2">Setting dimension:</th></tr><tr><td>E2</td><td>18.5 mm</td></tr><tr><td></td><td>0.73 in</td></tr><tr><th colspan="2">Functional dimension:</th></tr><tr><td>F2</td><td>17.0 mm</td></tr><tr><td></td><td>0.67 in</td></tr><tr><th colspan="2">Tightening torque:</th></tr><tr><td colspan="2">10.0 Nm (7.375 lbf ft)</td></tr></table>                                                  | Setting dimension: |             | E2 | 18.5 mm                                                   |   | 0.73 in                    | Functional dimension: |                                                                                   | F2 | 17.0 mm                                                         |  | 0.67 in | Tightening torque: |  | 10.0 Nm (7.375 lbf ft) |  |
| Setting dimension:                            |                                                                                                                                       |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
| E2                                            | 18.5 mm                                                                                                                               |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
|                                               | 0.73 in                                                                                                                               |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
| Functional dimension:                         |                                                                                                                                       |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
| F2                                            | 17.0 mm                                                                                                                               |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
|                                               | 0.67 in                                                                                                                               |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
| Tightening torque:                            |                                                                                                                                       |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |
| 10.0 Nm (7.375 lbf ft)                        |                                                                                                                                       |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |    |                                                           |   |                            |                       |                                                                                   |    |                                                                 |  |         |                    |  |                        |  |

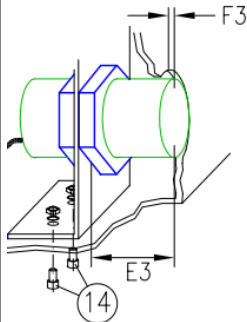
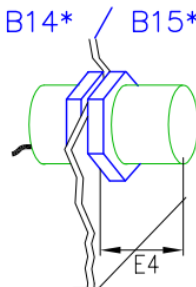
# Hänel Setting Instructions

## Proximity switches in access point and extractor

# Lean-Lift

## Multi-Space

### 3. Installation instructions: (continued)

| Extractor                      | B14 / B15                                                                                                                 |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--|----|--------------------|------------------------------|--|-------------------------------|-------------------|---------------------------|--|--------------------------------|--|------|-------------|-----------|---------------------------------------------------------------------------------------------------------------------------|
| Type width ≤ 3260              |                                                                                                                           |    | <table><tr><td colspan="2"><b>Setting dimension:</b></td></tr><tr><td>E3</td><td>12.0 mm<br/>0.47 in</td></tr><tr><td colspan="2"><b>Functional dimension:</b></td></tr><tr><td>F3</td><td>2.0 mm<br/>0.08 in</td></tr><tr><td colspan="2"><b>Tightening torque:</b></td></tr><tr><td colspan="2"><b>25.0 Nm (18.438 lbf ft)</b></td></tr></table> <table><tr><th>Item</th><th>Description</th></tr><tr><td><b>14</b></td><td>Socket head cap screw<br/>ISO 4762 - M5x16<br/>Spring washer<br/>DIN 127-5 galvanised<br/>Hex nut<br/>ISO 4032 - M5 galvanised</td></tr></table> | <b>Setting dimension:</b> |  | E3 | 12.0 mm<br>0.47 in | <b>Functional dimension:</b> |  | F3                            | 2.0 mm<br>0.08 in | <b>Tightening torque:</b> |  | <b>25.0 Nm (18.438 lbf ft)</b> |  | Item | Description | <b>14</b> | Socket head cap screw<br>ISO 4762 - M5x16<br>Spring washer<br>DIN 127-5 galvanised<br>Hex nut<br>ISO 4032 - M5 galvanised |
| <b>Setting dimension:</b>      |                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
| E3                             | 12.0 mm<br>0.47 in                                                                                                        |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
| <b>Functional dimension:</b>   |                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
| F3                             | 2.0 mm<br>0.08 in                                                                                                         |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
| <b>Tightening torque:</b>      |                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
| <b>25.0 Nm (18.438 lbf ft)</b> |                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
| Item                           | Description                                                                                                               |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
| <b>14</b>                      | Socket head cap screw<br>ISO 4762 - M5x16<br>Spring washer<br>DIN 127-5 galvanised<br>Hex nut<br>ISO 4032 - M5 galvanised |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
| Type width > 3260              |                                                                                                                           |  | <table><tr><td colspan="2"><b>Setting dimension:</b></td></tr><tr><td>E4</td><td>8.7 mm<br/>0.34 in</td></tr><tr><td colspan="2"><b>Tightening torque:</b></td></tr><tr><td colspan="2"><b>10.0 Nm (7.375 lbf ft)</b></td></tr></table>                                                                                                                                                                                                                                                                                                                                        | <b>Setting dimension:</b> |  | E4 | 8.7 mm<br>0.34 in  | <b>Tightening torque:</b>    |  | <b>10.0 Nm (7.375 lbf ft)</b> |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
| <b>Setting dimension:</b>      |                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
| E4                             | 8.7 mm<br>0.34 in                                                                                                         |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
| <b>Tightening torque:</b>      |                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |
| <b>10.0 Nm (7.375 lbf ft)</b>  |                                                                                                                           |                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |  |    |                    |                              |  |                               |                   |                           |  |                                |  |      |             |           |                                                                                                                           |

### 3. Installation instructions: (continued)

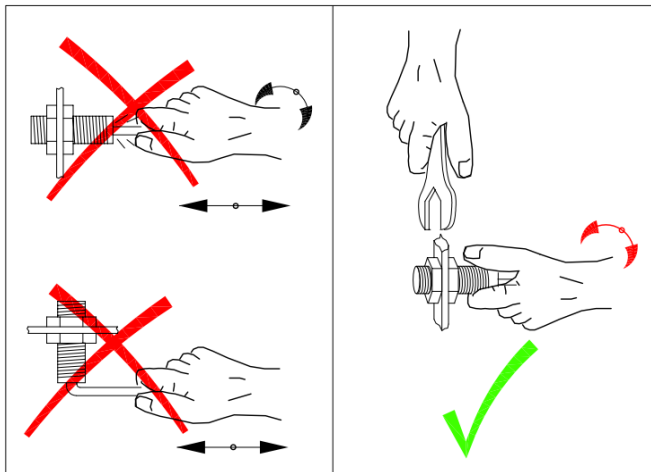


Fig. 5: Installation/setting instructions

| Step | Task                                                                                                                                                                                                                                                    | Notes / illustration                                                                                                                                                                                                                              |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2    | You can check the function of a proximity switch using a metallic object.                                                                                                                                                                               |                                                                                                                                                                                                                                                   |
| 3    | Adjust proximity switch; while doing so, do not twist the cable.                                                                                                                                                                                        | See Fig. 1, 2, 3, 4, 5<br><b>Caution:</b><br>It is mandatory to observe the setting dimensions of the proximity switch (See Fig. 1, 2, 3 and 4). If the distances are set incorrectly, the drive catches or the proximity switch will be damaged. |
| 4    | Check the setting of proximity switches B12 and B13 by carrying out an extractor lift run. <ul style="list-style-type: none"> <li>Move container from access point onto extractor.</li> <li>Move container from rear carrier onto extractor.</li> </ul> | The container must not protrude over the extractor at any time.<br>If necessary, set the extractor run-on accordingly. See Technical Description "T-12NLL", Chapter "Positioning".                                                                |
| 5    | Check the setting of proximity switches B18 and B19 by carrying out a vertical lift run.                                                                                                                                                                | Check the switching state of the proximity switches in the control system.<br>See Supplementary Description of the Service Functions "Z-SERFKT"                                                                                                   |

### 4. Rollers on extractor for Lean-Lift Type /1000

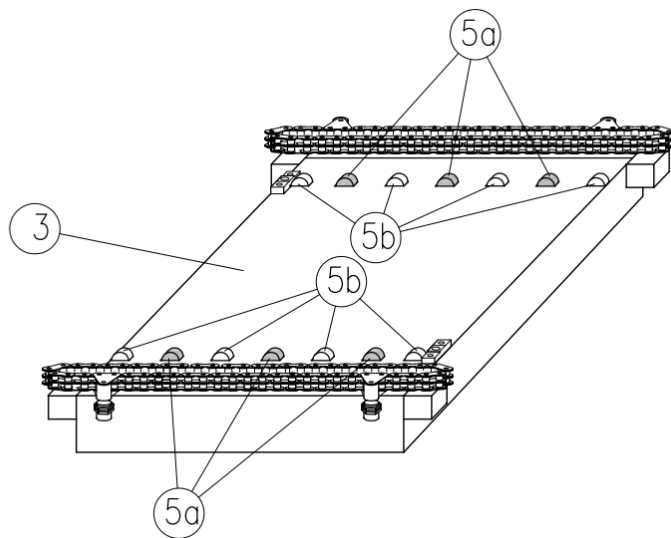


Fig. 6: Extractor rollers for Type depth 635

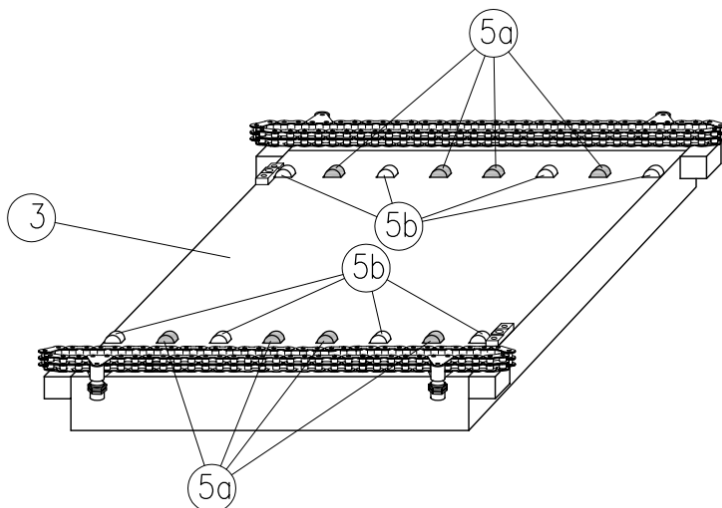


Fig. 7: Extractor rollers for Type depth 825

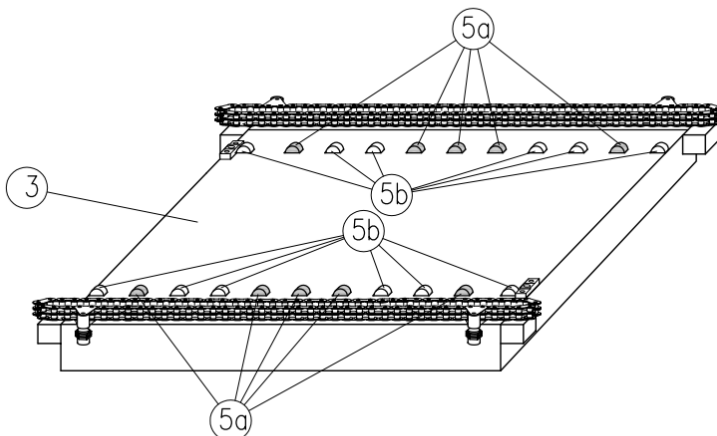


Fig. 8: Extractor rollers for Type depth 1047

4.
Rollers on extractor for Lean-Lift Type /1000 (continued)

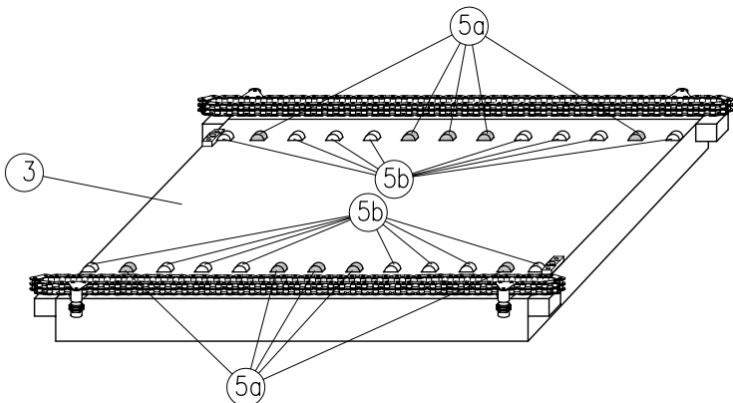


Fig. 9: Extractor rollers for Type depth 1270

| Item | Description            |
|------|------------------------|
| 3    | Extractor              |
| 5a   | Sliding bearing roller |
| 5b   | Ball bearing roller    |

| Step | Task                                                                                                              | Notes / illustration                                                                                                                               |
|------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Insert the corresponding roller pairs ( <i>item 5a or 5b</i> ) into the cages of the extractor ( <i>item 3</i> ). | Select the roller pairs as shown in Fig. 6 - 9<br><br><b>Note:</b><br>Rollers in the access point cover: see Installation Instructions "INST-LL-S" |

### 5. Removal

1. Before starting the removal, secure the extractor, or cross-member with extractor, against descending or falling.



**DANGER**

The extractor or cross-member with extractor is a suspended load that can fall.

Therefore, whenever working inside the lift, you have to lower it to ground level.

If this is not possible, you have to secure them using the locking device. (See operating manual "MANL-LL", Work inside the lift by authorised personnel - Securing the extractor or operating manual "MANL-MS", Work inside the lift by authorised personnel - Securing the cross-member with extractor).

2. Switch off the main switch (Q2) and secure it from being switched on again using a padlock.



**DANGER**

**Risk of electrocution!**

### SAFETY INSTRUCTIONS



**The lift must be de-energised before work begins.**

- Switch off main switch (Q2).
- Secure the main switch (Q2) from being switched on again.
- Verify that the lift has been de-energised.
- Cover or block off neighbouring live parts. (Switch off external voltage source for multi-unit network and lock it using tool WZ-67)

3. Before entering the inside of the lift, secure the actuator of the safety switch on the service door (S3) with a padlock.

### SAFETY INSTRUCTIONS



**Secure the actuator latch!**

Before all work, secure the actuator latch of the service door from being switched on again using a padlock.

4. To remove the proximity switches properly, correctly follow the reverse order of steps as described previously in Chapter 3.

5. After removal, dispose of the structural components in an environmentally responsible manner (see Installation Instructions "INST-LL-S" or "INST-LW" or "INST-MS", Disposal instructions).



### 6. Annex

#### Revision notes

- Last issue dated: 2007-03-30
- Added disposal
  - Screws and extractor revised
- 2008-11-10
- B20 to B27 are not pre-assembled in standard versions
  - Lift type as of 500 kg (1102 lbs.) integrated
- 2009-03-23
- B14 and B15 with fastening screws
- 2010-03-01
- Abutting wedges with covering hood, dimension H1
- 2011-01-18
- Added Chapter 4
- 2011-06-08
- Setting dimensions and functional dimensions added, shim for 25 mm (0.98") spacing added
- 2012-03-02
- Note added about adhesive when replacing parts
- 2014-10-07
- Weighing device for container ejector added
- 2015-07-22
- Setting dimensions updated
- 2017-07-17
- Tightening torque added
- 2021-11-18
- B20/B26 with LL-AUSZ-HL and weighing device
- 2023-10-31
- Cover cap added
- 2024-07-03
- B10-B13 revised
- 2025-03-10
- Setting dimension E1 revised

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