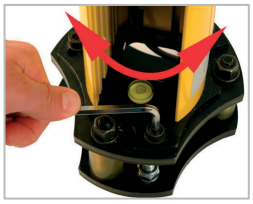
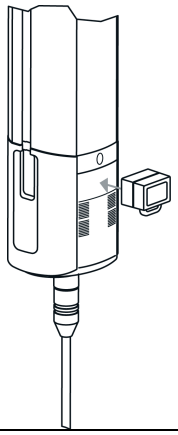
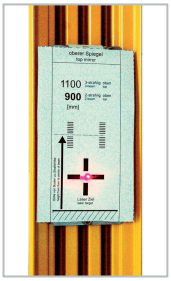
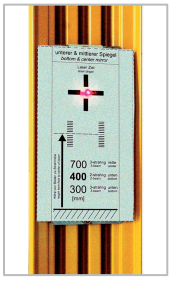
MLD Laser Alignment Instructions (short version)

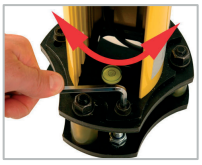
ATTENTION

Before beginning work, precisely align the transmitter, receiver and deflecting mirror columns vertically!

- The vertical alignment must not be changed during the alignment process. Only turning or changes in height are permitted.

1	If the transmitter is mounted in a device column: - Loosen the Allen screws on the column foot so that the transmitter can be aligned with the first mirror column (see figure 1a). - Set the height (see figure 1b).	1a  1b 
2	- Activate the **laser beams** if necessary by placing the MagnetKey on the transmitter below the red laser exit window. **NOTE** After switching on the transmitter, the laser beams are active for approx. 10 minutes.  Laser **Attention: class 2 laser beam!** **Never look directly into the laser beam!**	2 
3	**Aligning the transmitter** - Place the upper or lower (if applicable, middle) alignment template on the corresponding mirror of the first mirror column (see figures 3a, 3b). - Align the transmitter until the upper or lower laser beam is incident on the beam marking (see figures 3a, 3b). - For the subsequent alignment, it is sufficient if the laser beam is incident on the respective template. If the transmitter is mounted in a device column: - To align the transmitter, slowly turn the transmitter column until the laser beam is incident in the middle of target mark on the alignment template (see figure 1a). - If necessary, adjust the height without losing the vertical alignment (see figure 1b). - Tighten the Allen screws.	3a  3b 

607406– 2011/01 - We reserve the right to make changes

4	**Aligning the mirror columns** ↳ Place the alignment templates on the corresponding mirrors of the second mirror column (see figures 3a, 3b). ↳ Align the laser beams on the next mirror column using the three Allen screws on the corresponding mirrors of the first mirror column (see figure 4). ↳ Repeat these two steps for any other mirror columns.	4 
5	**Last mirror column** ↳ Align the laser beams as specified in point 4 until the laser beams are incident on the corresponding reflective elements of the receiver (see figure 5). If the reflective elements illuminate brightly (see arrow), the mirror is correctly aligned.	5 
6	↳ Remove the alignment template from the last mirror column.	
7	**Receiver column** ↳ Loosen the Allen screws on the column foot (see figure 7a) and slowly turn the vertically aligned column until the "green" LED on the display (see figure 7b) illuminates.	7 a  7 b 
8	↳ Secure the device columns by tightening the Allen screws on the column foot of the transmitter and the receiver.	

If the laser beam is not visible on the positioned alignment template or if the laser impact marker of the receiver is not visible, follow the laser beam of the transmitter or of the previously aligned mirror column with a piece of white paper to the next surface on which the laser is incident.

Detailed information on light-axis alignment can be found in the mounting instructions for UMC mirror columns included with the mirror column.

Leuze electronic GmbH + Co. KG,
In der Braike 1
D-73277 Owen - Teck / Germany
Phone +49 (0) 7021 / 573-0
Fax: +49 (0) 7021 / 573-199
info@leuze.de
lwww.leuze.com