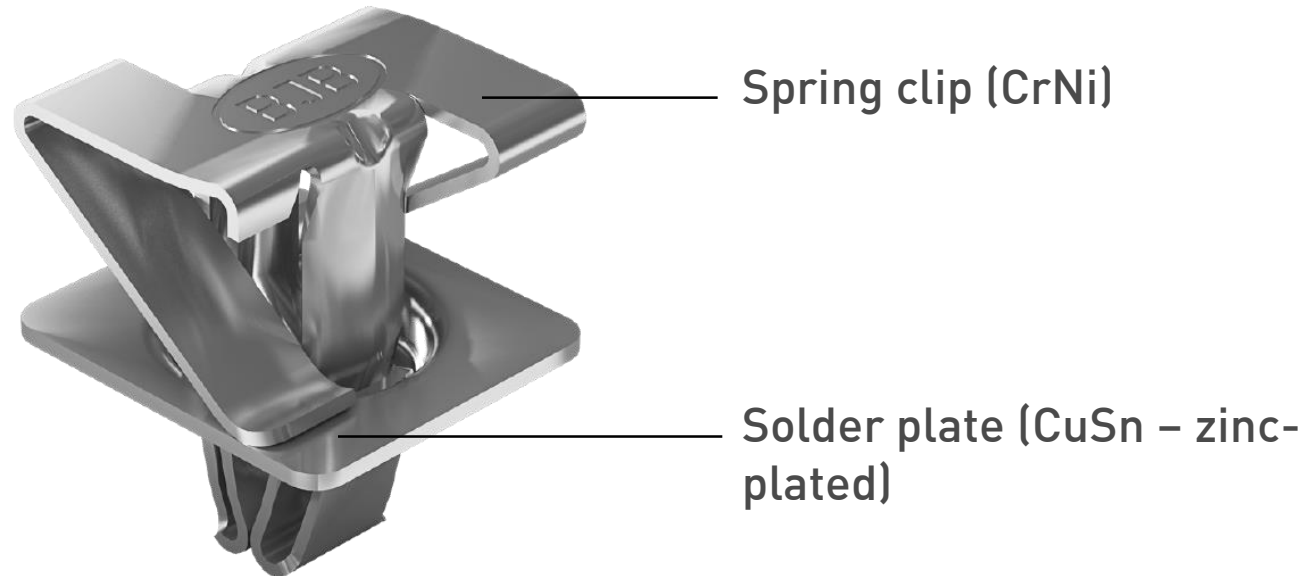


A long-exposure photograph of a city street at night. The image shows multiple lanes of traffic with vibrant, multi-colored light trails (red, blue, yellow, white) stretching across the foreground. In the background, several tall, modern skyscrapers are illuminated with blue and white lights. A curved, illuminated pedestrian bridge or overpass is visible in the middle ground, adding to the architectural complexity of the scene.

DEVELOPMENT & INNOVATION PARTNER OF THE LIGHTING AND APPLIANCE
INDUSTRY

SMD-P2F solderable 28.904 - Construction

28.904.U101.10



SMD-P2F solderable 28.904 - applications

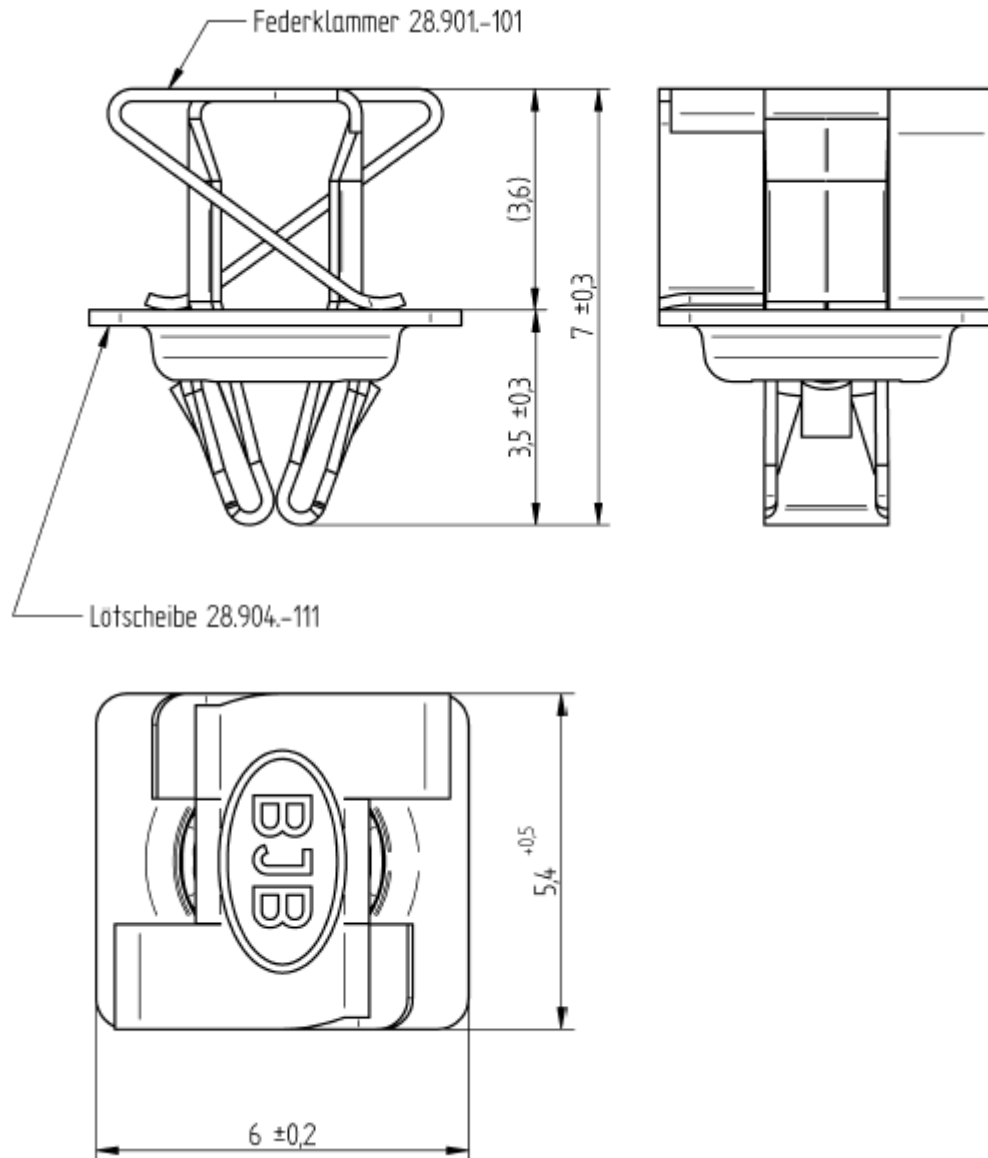
For fixing low- and mid-power LED boards to mounting plates



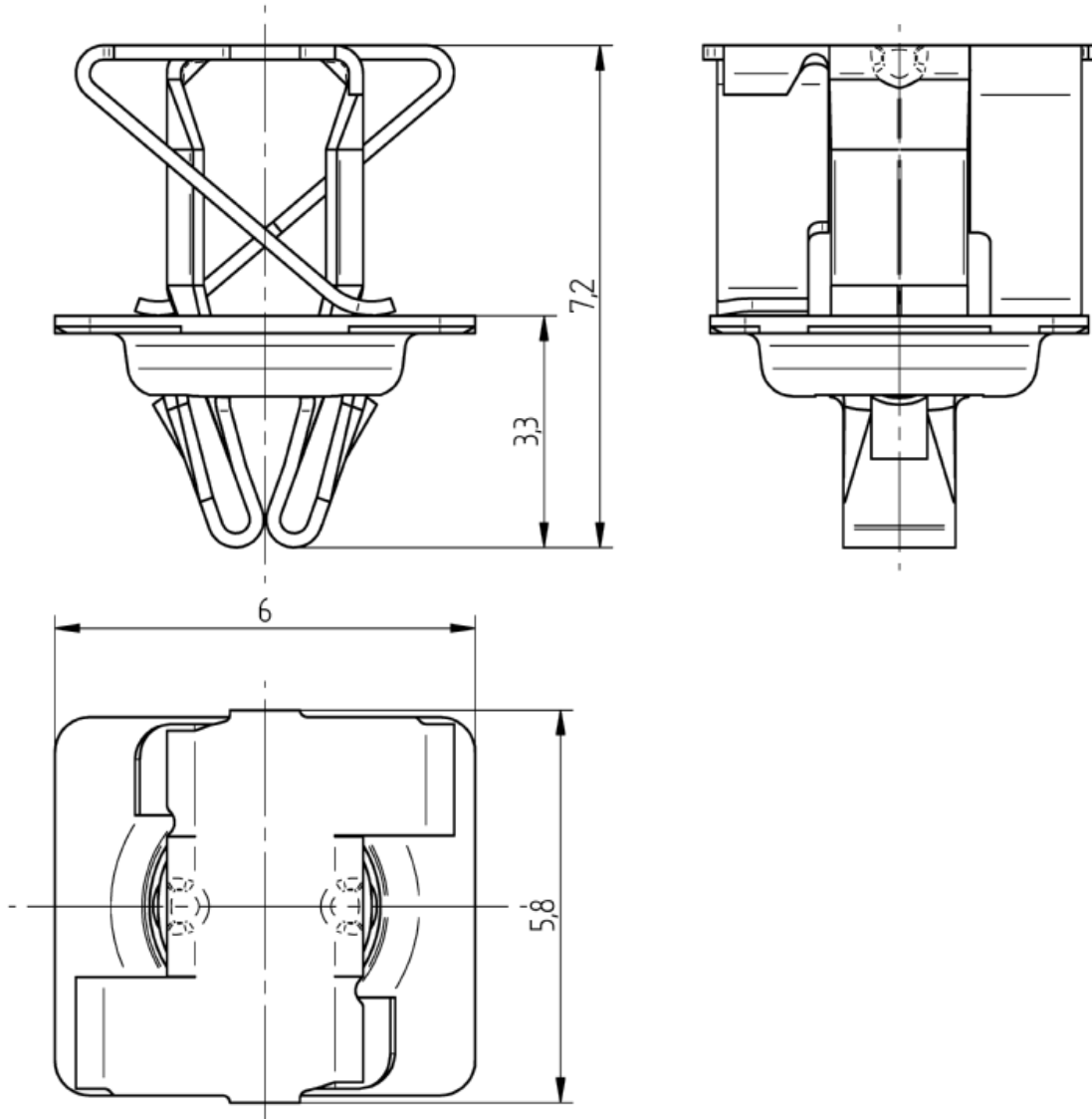
SMD-P2F solderable 28.904 – benefits

- Simplified final installation due to pre-attached fixing on the LED - Module
 - No additional screw-fixing assembly required
 - Simplification of logistics by reduction of components at the manual workstation
- After final assembly of the LED board with P2F SMD fixing element, a contact pressure of at least 5N / P2F is permanently ensured
- Low profile component prevents shadowing
- Suitable for standardized hole patterns with $\varnothing$ 4.5 mm in the LED - Module
- For mounting plate cut-out $\varnothing$ 3.0 +0.2 mm
- Installation process increases productivity and reduces production costs
- No torque screw driver required
- Low assembly forces required
- Low insertion force prevents possible damage compared to the screw fixing
- Good ergonomics through manual setting tool (bit holder with magnetic bit)
- Suitable for manual and automatic final installation of PCB boards
- Releasable connection
- Non-destructive release tool for SMD P2F fixing elements allows re-assembly of the LED - Module

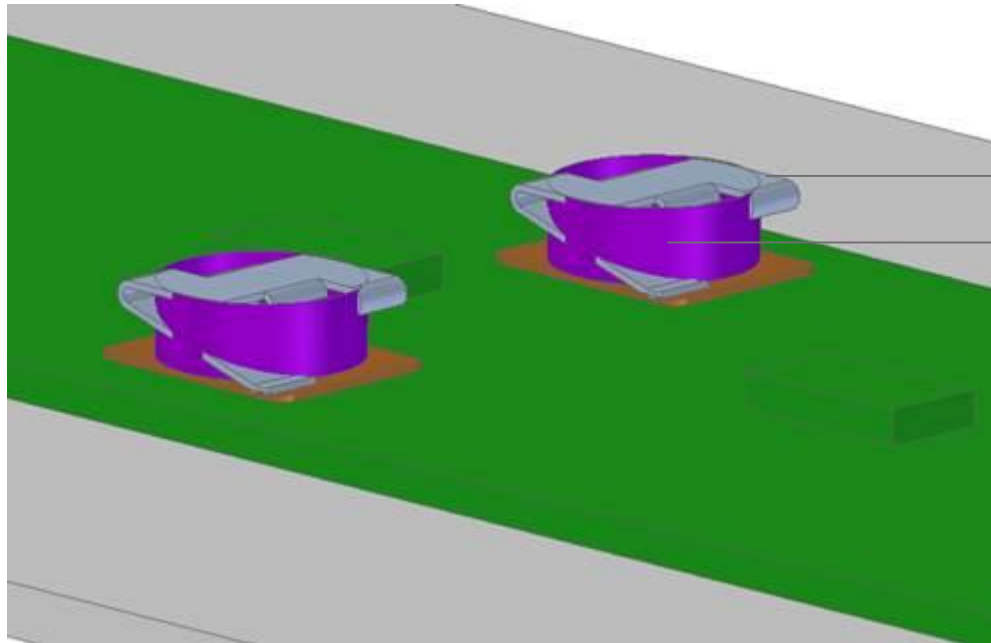
SMD-P2F solderable 28.904.U101 - dimensions in Relaxed condition



SMD-P2F solderable 28.904.U102 - dimensions in Relaxed condition



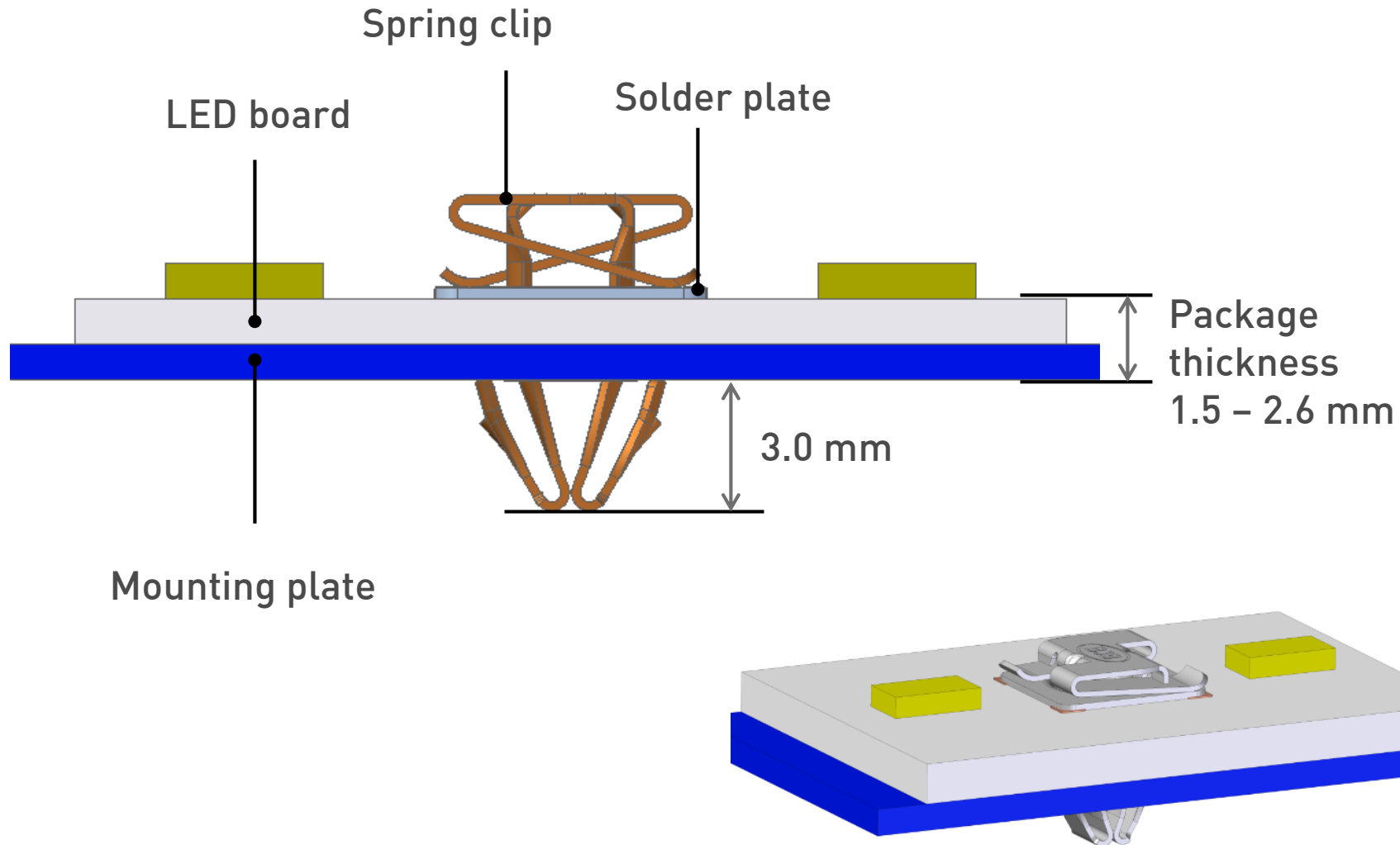
SMD-P2F solderable 28.904 - dimensions



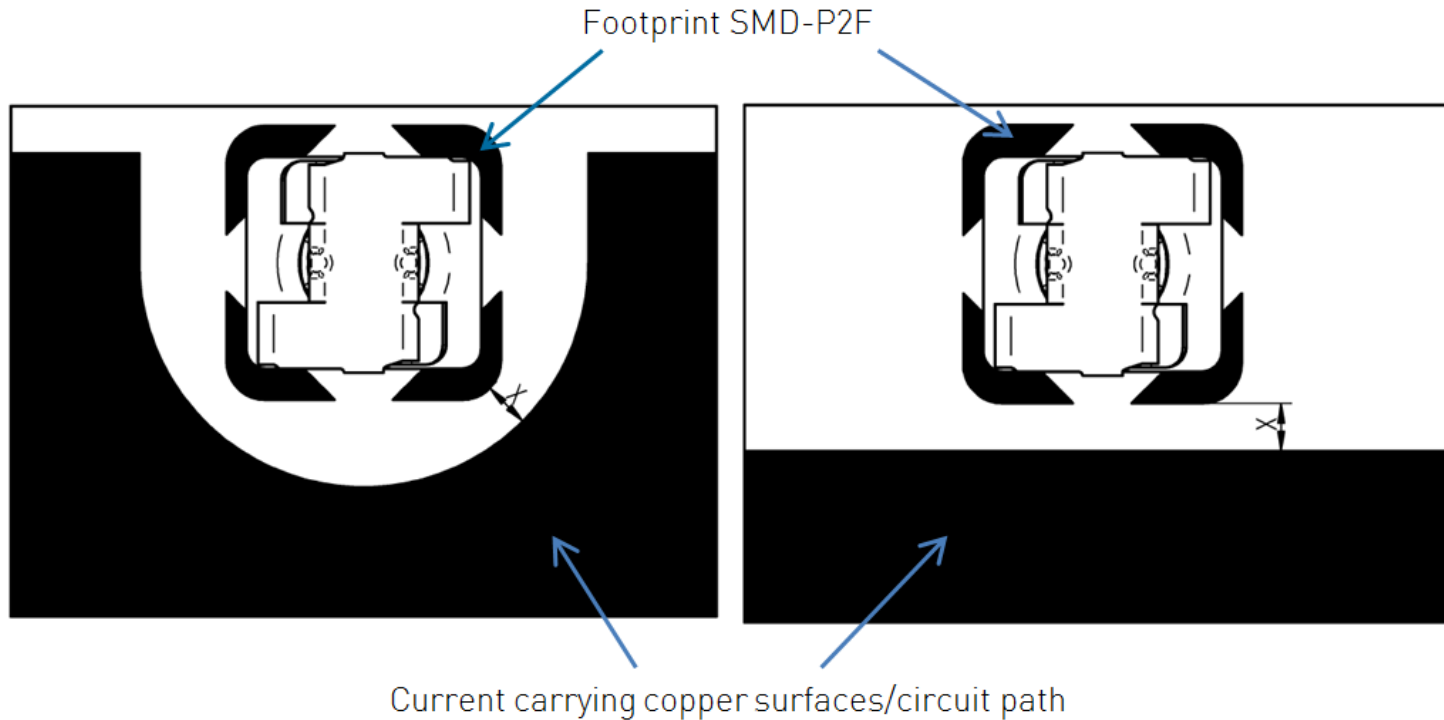
Head of spring clip

Head of M3 screw

SMD-P2F- solderable 28.904 – installation situation



Creepage and clearance distances SMD-P2F

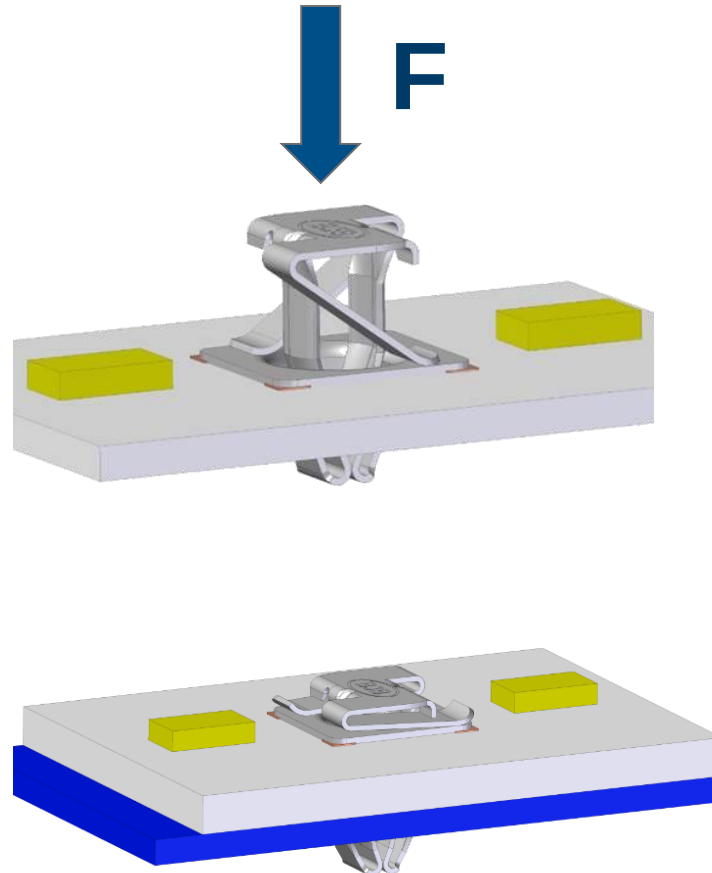


The SMD-P2F fixing element has direct contact with the metal work of the luminaire via the metallic spring clip.

The distance "X" is therefore dependent on the applicable standard, the luminaire class (luminaire application) and the required creepage and clearance distances for this purpose and must be observed accordingly.

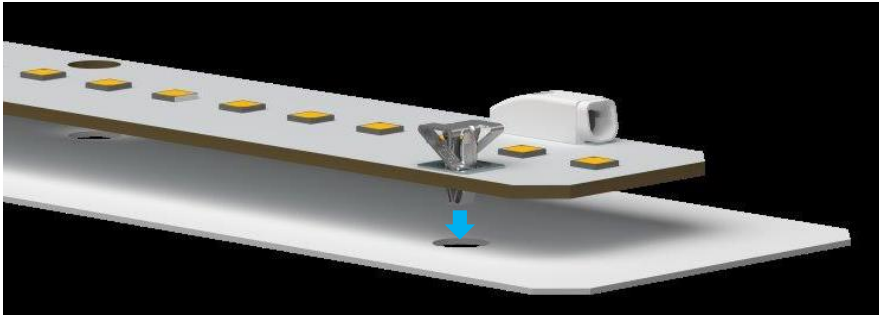
SMD-P2F solderable 28.904- installation

- To attach the LED board to the mounting plate, the spring clip is pressed down with an assembly tool.
- This can be performed manually or automatically.



SMD-P2F solderable 28.904 - installation

Installation steps



1. Integrated pre-centring: Fixing holes easy to locate by means of protruding P2F



2. The PCB is placed on the luminaire housing in such a way that the fixing elements connect into the holes provided



3. The spring clip is pressed into its final position either automatically or by means of a manual setting tool

Video YouTube

<https://youtu.be/LTBIM5p68Ys>

SMD-P2F solder able 28.904 - installation tool

- The spring clip is pressed down with an assembly tool consisting of bit holder and mounting bit.
- The assembly bit limits the path when the spring clip is pressed down. In this way, the spring clip is not overstretched and the pressure force of the LED board on the gear tray is ensured.
- All in all 3 different mounting bits are available for 3 different package thickness ranges.

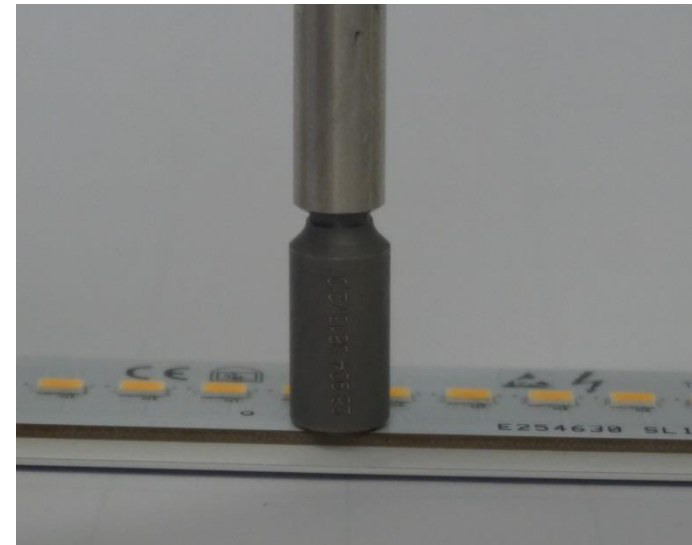
Articel- No.	Package thickness range
28.904.U811.10	2.4 - 2.6 mm
28.904.U812.10	1.8 - 2.3 mm
28.904.U813.10	1.5 - 1.7 mm



- In addition to the mounting bits, the bit holder 28.901.U801.89 is available.

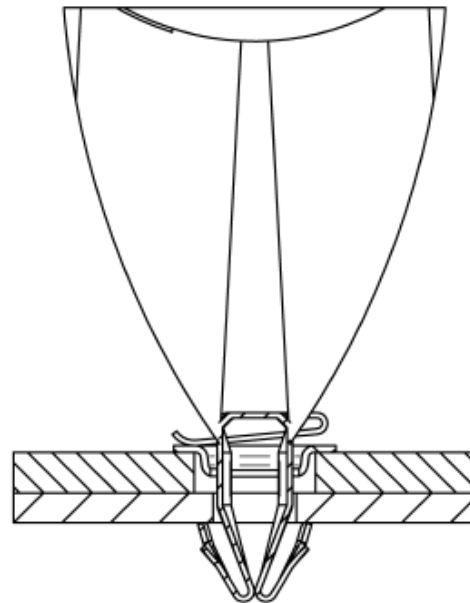
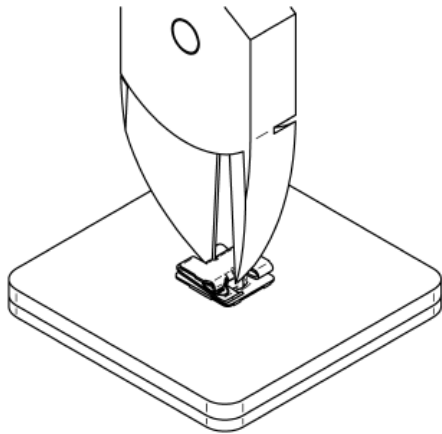


SMD-P2F solder able 28.904 - pictures installation



SMD-P2F solder able 28.904 - Removal with side cutter

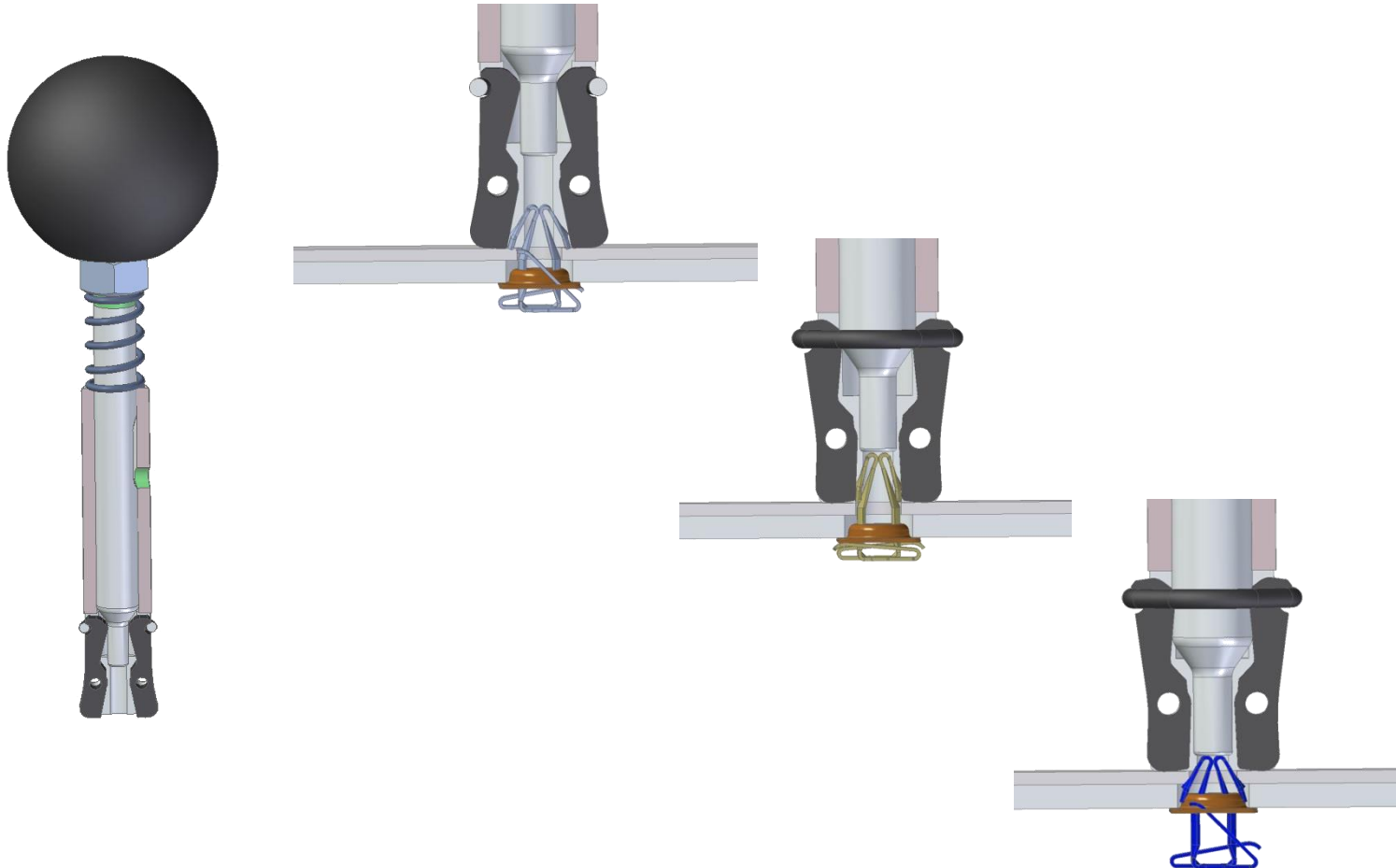
- The removal process can be performed with a side cutter. To do this, the head of the spring clip is compressed. This relieves the pressure of the spring clip below the PCB and the clip can then be pulled upwards and extracted. In order to re-install the LED board, a new spring clip without a solder disc (28.904.-101.10) is required.
- Pictures: Position of the side cutter to remove the spring clip



SMD-P2F solder able 28.904 - Non-destructive release

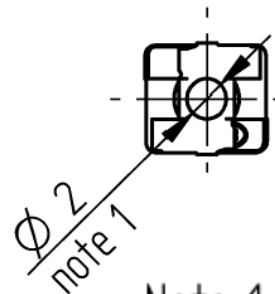
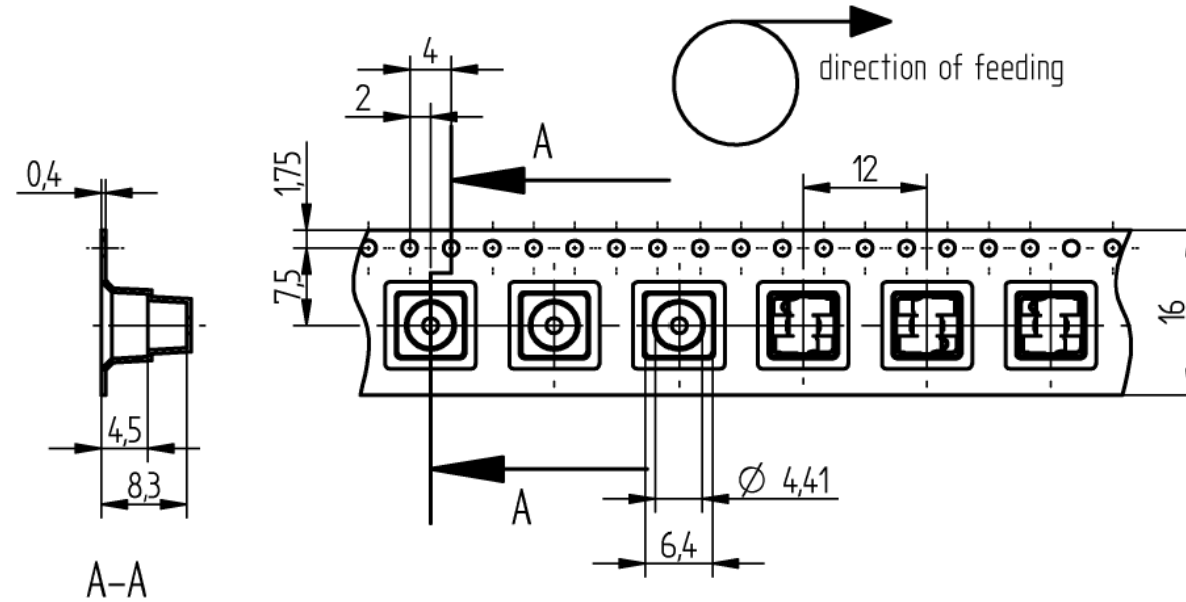
Removal tool for the non-destructive release of the SMD P2F 28.904

- SMD P2F remains pre-fixed in the LED Board after being released and is reusable



SMD-P2F solderable 28.904 - Tape and Reel

- Simultaneous installation of the P2F and the SMD terminal block by means of an SMD placement machine
- 700 P2F SMD / Tape-and-Reel

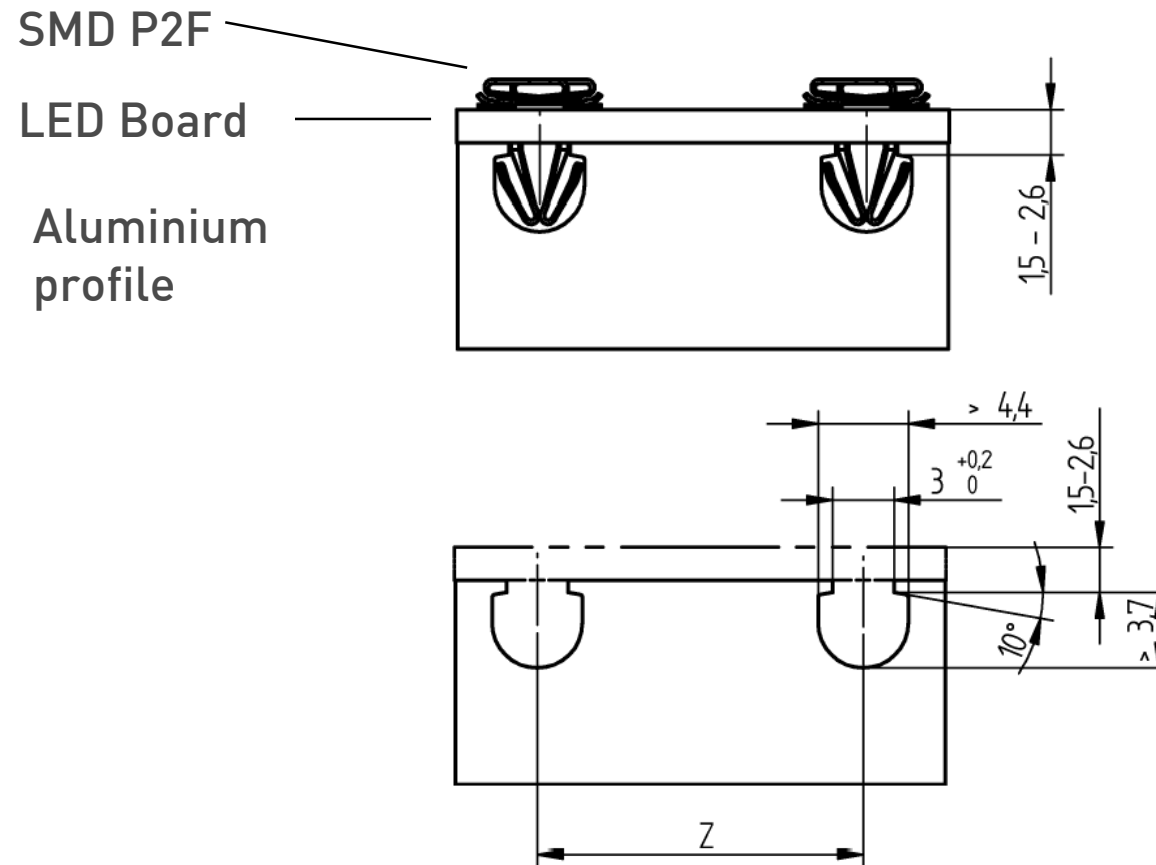


Note 1: Recommended pick & place area

SMD-P2F solder able 28.904 - Application Profile groove

Application in aluminium profile with Profile groove

- Contact pressure min. 5 N/SMD P2F
- Package thickness 1,5 - 2,6 mm



The background of the slide is a blurred photograph of a modern office interior. Several people are visible in the background, some standing and talking, others working at desks. The office has large windows on the right side, letting in natural light. A semi-transparent blue horizontal bar is overlaid on the middle of the image, containing the text "THANK YOU FOR YOUR ATTENTION!".

THANK YOU FOR YOUR ATTENTION!

