

ZL strain relief plates

for screw assembly



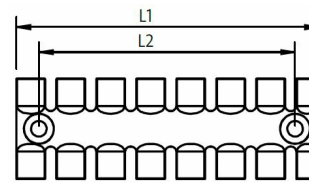
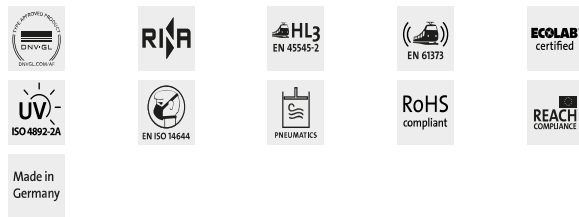
The strain relief plate ZL is used for static or dynamic applications for organising and securing cables on machines, control panels or drag chains.

The design of the strain relief unit provides secure strain relief according to EN 62444. Mount of the cables or pneumatic tubing is easily done using cable ties.

By using aluminium (ZL-AB types) or brass (ZL-MS types) nuts for the screw holes, a better fit of the strain relief plate is achieved, even in high vibration environments.

Strain relief plates ZL 03 | 04 | 05 feature different comb widths. Thus providing a multi-purpose product for various cable sizes.

For multilayer installation please use DH spacers.



Specifications

| | |
|------------------------------|---|
| Material | Polyamide Inlay bushings: Aluminium Inlay bushings: Brass |
| Flame class | UL94-V0, self-extinguishing |
| Operating temperature | -40 C° to 140 C° |
| Properties | silicone free, halogen free |
| Mounting options | Screw type mounting |


Advantages & benefits


- Strain relief according to EN 62444
- Fast and easy mounting
- Cost-effective solution
- High cable density
- Versatile utilisation


Product types & sizes


| | | | | | |
|--|--------------|------------------------|----------------------|----------------------|--------------|
| | ZL 39 | Part No. | 32222 | Height | 10 mm |
| | | EAN | 4251269300837 | No. of teeth | 3 |
| | | PU | 10 | No. of screw holes | 2 |
| | | For max. no. of cables | 3 | Diam. of screw holes | 9 mm |
| | | Length L1 | 38.5 mm | | |
| | | Length L2 | 19.5 mm | | |
| | | Width | 40 mm | | |


| | | | | | |
|--|--------------|------------------------|----------------------|----------------------|--------------|
| | ZL 60 | Part No. | 32224 | Height | 10 mm |
| | | EAN | 4251269300844 | No. of teeth | 4 |
| | | PU | 10 | No. of screw holes | 2 |
| | | For max. no. of cables | 4 | Diam. of screw holes | 9 mm |
| | | Length L1 | 59.5 mm | | |
| | | Length L2 | 43.5 mm | | |
| | | Width | 40 mm | | |


| | | | | |
|--|------------------------|----------------------|----------------------|--------------|
| ZL 70  | Part No. | 32226 | Height | 10 mm |
| | EAN | 4251269300851 | No. of teeth | 5 |
| | PU | 10 | No. of screw holes | 2 |
| | For max. no. of cables | 5 | Diam. of screw holes | 9 mm |
| | Length L1 | 69.1 mm | | |
| | Length L2 | 43.5 mm | | |
| | Width | 40 mm | | |

| | | | | |
|--|------------------------|----------------------|----------------------|--------------|
| ZL 87  | Part No. | 32228 | Height | 10 mm |
| | EAN | 4251269300868 | No. of teeth | 6 |
| | PU | 10 | No. of screw holes | 2 |
| | For max. no. of cables | 6 | Diam. of screw holes | 9 mm |
| | Length L1 | 86.5 mm | | |
| | Length L2 | 68 mm | | |
| | Width | 40 mm | | |

| | | | | |
|---|------------------------|----------------------|----------------------|--------------|
| ZL 103  | Part No. | 32230 | Height | 10 mm |
| | EAN | 4251269300875 | No. of teeth | 7 |
| | PU | 10 | No. of screw holes | 2 |
| | For max. no. of cables | 7 | Diam. of screw holes | 9 mm |
| | Length L1 | 102 mm | | |
| | Length L2 | 84 mm | | |
| | Width | 40 mm | | |

| | | | | |
|---|------------------------|----------------------|----------------------|--------------|
| ZL 121  | Part No. | 32232 | Height | 10 mm |
| | EAN | 4251269300882 | No. of teeth | 8 |
| | PU | 10 | No. of screw holes | 2 |
| | For max. no. of cables | 8 | Diam. of screw holes | 9 mm |
| | Length L1 | 121 mm | | |
| | Length L2 | 102.5 mm | | |
| | Width | 40 mm | | |

| | | | | |
|---|------------------------|----------------------|----------------------|--------------|
| ZL 140  | Part No. | 32234 | Height | 10 mm |
| | EAN | 4251269300899 | No. of teeth | 9 |
| | PU | 10 | No. of screw holes | 2 |
| | For max. no. of cables | 9 | Diam. of screw holes | 9 mm |
| | Length L1 | 139.5 mm | | |
| | Length L2 | 121 mm | | |
| | Width | 40 mm | | |

| | | | | |
|---|------------------------|----------------------|----------------------|--------------|
| ZL 180  | Part No. | 32236 | Height | 10 mm |
| | EAN | 4251269300905 | No. of teeth | 12 |
| | PU | 10 | No. of screw holes | 2 |
| | For max. no. of cables | 12 | Diam. of screw holes | 9 mm |
| | Length L1 | 180 mm | | |
| | Length L2 | 157 mm | | |
| | Width | 40 mm | | |

ZL 39 AB M4

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32270 | Height | 10.2 mm |
| EAN | 4251269301001 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 3 |
| For max. no. of cables | 3 | No. of screw holes | 2 |
| Length L1 | 38.5 mm | Diam. of screw holes | 4.1 mm |
| Length L2 | 19.5 mm | | |
| Width | 40 mm | | |

ZL 39 AB M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32280 | Height | 10.2 mm |
| EAN | 4251269301087 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 3 |
| For max. no. of cables | 3 | No. of screw holes | 2 |
| Length L1 | 38.5 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 19.5 mm | | |
| Width | 40 mm | | |

ZL 39 AB M6

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32290 | Height | 10.2 mm |
| EAN | 4251269301162 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 3 |
| For max. no. of cables | 3 | No. of screw holes | 2 |
| Length L1 | 38.5 mm | Diam. of screw holes | 6.2 mm |
| Length L2 | 19.5 mm | | |
| Width | 40 mm | | |

ZL 60 AB M4

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32271 | Height | 10.2 mm |
| EAN | 4251269301018 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 4 |
| For max. no. of cables | 4 | No. of screw holes | 2 |
| Length L1 | 59.5 mm | Diam. of screw holes | 4.1 mm |
| Length L2 | 43.5 mm | | |
| Width | 40 mm | | |

ZL 60 AB M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32281 | Height | 10.2 mm |
| EAN | 4251269301094 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 4 |
| For max. no. of cables | 4 | No. of screw holes | 2 |
| Length L1 | 59.5 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 43.5 mm | | |
| Width | 40 mm | | |

ZL 60 AB M6

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32291 | Height | 10.2 mm |
| EAN | 4251269301179 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 4 |
| For max. no. of cables | 4 | No. of screw holes | 2 |
| Length L1 | 59.4 mm | Diam. of screw holes | 6.2 mm |
| Length L2 | 43.5 mm | | |
| Width | 40 mm | | |

ZL 70 AB M4

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32272 | Height | 10.2 mm |
| EAN | 4251269301025 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 5 |
| For max. no. of cables | 5 | No. of screw holes | 2 |
| Length L1 | 69.1 mm | Diam. of screw holes | 4.1 mm |
| Length L2 | 43.5 mm | | |
| Width | 40 mm | | |

ZL 70 AB M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32282 | Height | 10.2 mm |
| EAN | 4251269301100 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 5 |
| For max. no. of cables | 5 | No. of screw holes | 2 |
| Length L1 | 69.1 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 43.5 mm | | |
| Width | 40 mm | | |

ZL 70 AB M6

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32292 | Height | 10.2 mm |
| EAN | 4251269301186 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 5 |
| For max. no. of cables | 5 | No. of screw holes | 2 |
| Length L1 | 69.1 mm | Diam. of screw holes | 6.2 mm |
| Length L2 | 43.5 mm | | |
| Width | 40 mm | | |

ZL 87 AB M4

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32273 | Height | 10.2 mm |
| EAN | 4251269301032 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 6 |
| For max. no. of cables | 6 | No. of screw holes | 2 |
| Length L1 | 86.5 mm | Diam. of screw holes | 4.1 mm |
| Length L2 | 68 mm | | |
| Width | 40 mm | | |

ZL 87 AB M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32283 | Height | 10.2 mm |
| EAN | 4251269301117 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 6 |
| For max. no. of cables | 6 | No. of screw holes | 2 |
| Length L1 | 86.5 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 68 mm | | |
| Width | 40 mm | | |

ZL 87 AB M6

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32293 | Height | 10.2 mm |
| EAN | 4251269301193 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 6 |
| For max. no. of cables | 6 | No. of screw holes | 2 |
| Length L1 | 86.5 mm | Diam. of screw holes | 6.2 mm |
| Length L2 | 68 mm | | |
| Width | 40 mm | | |

ZL 103 AB M4

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32275 | Height | 10.2 mm |
| EAN | 4251269301056 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 7 |
| For max. no. of cables | 7 | No. of screw holes | 2 |
| Length L1 | 102.5 mm | Diam. of screw holes | 4.1 mm |
| Length L2 | 84 mm | | |
| Width | 40 mm | | |

ZL 103 AB M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32284 | Height | 10.2 mm |
| EAN | 4251269301124 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 7 |
| For max. no. of cables | 7 | No. of screw holes | 2 |
| Length L1 | 102.5 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 84 mm | | |
| Width | 40 mm | | |

ZL 103 AB M6

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32294 | Height | 10.2 mm |
| EAN | 4251269301209 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 7 |
| For max. no. of cables | 7 | No. of screw holes | 2 |
| Length L1 | 102.5 mm | Diam. of screw holes | 6.2 mm |
| Length L2 | 84 mm | | |
| Width | 40 mm | | |

ZL 121 AB M4

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32277 | Height | 10.2 mm |
| EAN | 4251269301070 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 8 |
| For max. no. of cables | 8 | No. of screw holes | 2 |
| Length L1 | 121 mm | Diam. of screw holes | 4.1 mm |
| Length L2 | 102.5 mm | | |
| Width | 40 mm | | |

ZL 121 AB M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32285 | Height | 10.2 mm |
| EAN | 4251269301131 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 8 |
| For max. no. of cables | 8 | No. of screw holes | 2 |
| Length L1 | 121 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 102.5 mm | | |
| Width | 40 mm | | |

ZL 121 AB M6

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32295 | Height | 10.2 mm |
| EAN | 4251269301216 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 8 |
| For max. no. of cables | 8 | No. of screw holes | 2 |
| Length L1 | 121 mm | Diam. of screw holes | 6.2 mm |
| Length L2 | 102.5 mm | | |
| Width | 40 mm | | |

ZL 140 AB M4

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32274 | Height | 10.2 mm |
| EAN | 4251269301049 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 9 |
| For max. no. of cables | 9 | No. of screw holes | 2 |
| Length L1 | 139.5 mm | Diam. of screw holes | 4.1 mm |
| Length L2 | 121 mm | | |
| Width | 40 mm | | |

ZL 140 AB M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32286 | Height | 10.2 mm |
| EAN | 4251269301148 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 9 |
| For max. no. of cables | 9 | No. of screw holes | 2 |
| Length L1 | 139.5 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 121 mm | | |
| Width | 40 mm | | |

ZL 140 AB M6

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32296 | Height | 10.2 mm |
| EAN | 4251269301223 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 9 |
| For max. no. of cables | 9 | No. of screw holes | 2 |
| Length L1 | 139.5 mm | Diam. of screw holes | 6.2 mm |
| Length L2 | 121 mm | | |
| Width | 40 mm | | |

ZL 180 AB M4

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32276 | Height | 10.2 mm |
| EAN | 4251269301063 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 12 |
| For max. no. of cables | 12 | No. of screw holes | 2 |
| Length L1 | 180 mm | Diam. of screw holes | 4.1 mm |
| Length L2 | 157 mm | | |
| Width | 40 mm | | |

ZL 180 AB M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32287 | Height | 10.2 mm |
| EAN | 4251269301155 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 12 |
| For max. no. of cables | 12 | No. of screw holes | 2 |
| Length L1 | 180 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 157 mm | | |
| Width | 40 mm | | |

ZL 180 AB M6

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32297 | Height | 10.2 mm |
| EAN | 4251269301230 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 12 |
| For max. no. of cables | 12 | No. of screw holes | 2 |
| Length L1 | 180 mm | Diam. of screw holes | 6.2 mm |
| Length L2 | 157 mm | | |
| Width | 40 mm | | |

ZL 39 MS M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32360 | Height | 10.2 mm |
| EAN | 4251269301322 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 3 |
| For max. no. of cables | 3 | No. of screw holes | 2 |
| Length L1 | 38.5 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 19.5 mm | | |
| Width | 40 mm | | |

ZL 60 MS M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32361 | Height | 10.2 mm |
| EAN | 4251269301339 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 4 |
| For max. no. of cables | 4 | No. of screw holes | 2 |
| Length L1 | 59.5 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 43.5 mm | | |
| Width | 40 mm | | |

ZL 70 MS M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32362 | Height | 10.2 mm |
| EAN | 4251269301346 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 5 |
| For max. no. of cables | 5 | No. of screw holes | 2 |
| Length L1 | 69 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 43.5 mm | | |
| Width | 40 mm | | |

ZL 87 MS M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32363 | Height | 10.2 mm |
| EAN | 4251269301353 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 6 |
| For max. no. of cables | 6 | No. of screw holes | 2 |
| Length L1 | 86.5 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 68 mm | | |
| Width | 40 mm | | |

ZL 103 MS M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32364 | Height | 10.2 mm |
| EAN | 4251269301360 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 7 |
| For max. no. of cables | 7 | No. of screw holes | 2 |
| Length L1 | 102.5 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 84 mm | | |
| Width | 40 mm | | |

ZL 121 MS M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32365 | Height | 10.2 mm |
| EAN | 4251269301377 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 8 |
| For max. no. of cables | 8 | No. of screw holes | 2 |
| Length L1 | 121 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 102.5 mm | | |
| Width | 40 mm | | |

ZL 140 MS M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32366 | Height | 10.2 mm |
| EAN | 4251269301384 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 9 |
| For max. no. of cables | 9 | No. of screw holes | 2 |
| Length L1 | 139.5 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 121 mm | | |
| Width | 40 mm | | |

ZL 180 MS M5

| | | | |
|------------------------|----------------------|----------------------|----------------|
| Part No. | 32367 | Height | 10.2 mm |
| EAN | 4251269301391 | Mounting height | 10.2 mm |
| PU | 10 | No. of teeth | 12 |
| For max. no. of cables | 12 | No. of screw holes | 2 |
| Length L1 | 180 mm | Diam. of screw holes | 5.2 mm |
| Length L2 | 157 mm | | |
| Width | 40 mm | | |

ZL 03

| | | | |
|------------------------|----------------------|----------------------|---------------|
| Part No. | 32112 | Height | 9.3 mm |
| EAN | 4251269300806 | No. of teeth | 4 |
| PU | 10 | No. of teeth (slim) | 7 |
| For max. no. of cables | 7 | Diam. of screw holes | 5.5 mm |
| Length L1 | 63.4 mm | | |
| Length L2 | 42 mm | | |
| Width | 35 mm | | |

ZL 04

| | | | |
|------------------------|----------------------|----------------------|---------------|
| Part No. | 32114 | Height | 9.3 mm |
| EAN | 4251269300813 | No. of teeth | 6 |
| PU | 10 | No. of teeth (slim) | 11 |
| For max. no. of cables | 11 | Diam. of screw holes | 5.5 mm |
| Length L1 | 95 mm | | |
| Length L2 | 74.5 mm | | |
| Width | 35 mm | | |

ZL 05

| | | | |
|------------------------|----------------------|----------------------|--------------|
| Part No. | 32116 | Height | 10 mm |
| EAN | 4251269300820 | No. of teeth | 7 |
| PU | 10 | Diam. of screw holes | 9 mm |
| For max. no. of cables | 13 | | |
| Length L1 | 102.5 mm | | |
| Length L2 | 84 mm | | |
| Width | 40 mm | | |