

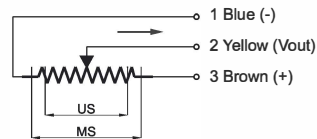
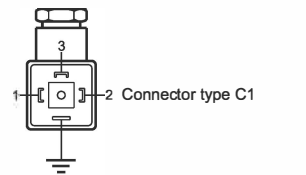
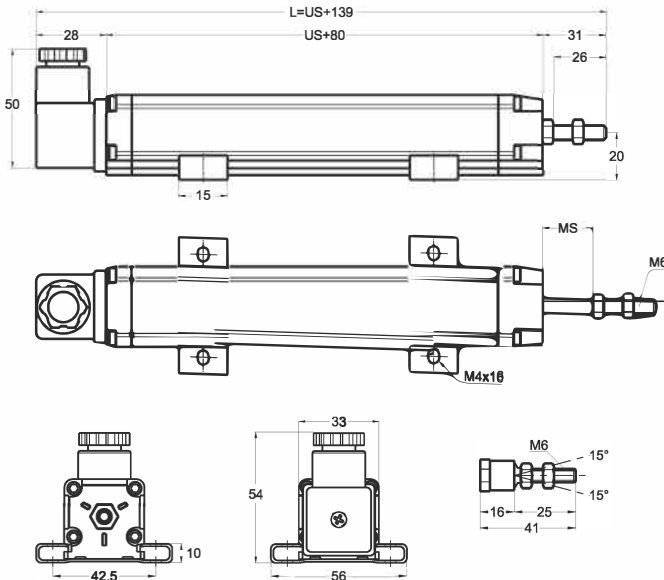
# Linear Potentiometer Ruby Serie / Advanced Design

- Measuring range 30 - 1000 mm
- Long mechanical life 100 million cycles
- Excellent repeatability <0.01 mm
- Infinite resolution
- 5 KOhm or 10 KOhm



## Technical specifications

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| Measurement stroke          | 30 to 1000 mm                                                          |
| Linearity                   | ± %0,05 (>200mm), ±%0,1 (130-200mm), ±%0,2 (75 - 130mm), ±%0,5 (<75mm) |
| Repeatability               | < 0.01 mm                                                              |
| Resolution                  | Infinite                                                               |
| Resistance                  | 5 KOhm or 10 KOhm                                                      |
| Resistance tolerance        | ± %20                                                                  |
| Load resistance             | 100 KOhm min.                                                          |
| Recommended cursor current  | <1 µA                                                                  |
| Permissible applied voltage | 28 VDC max.                                                            |
| Electrical connections      | 4 pin connector                                                        |
| Displacement speed          | < 5 m/s                                                                |
| Mechanical life             | 100 million cycles                                                     |
| Case dimensions             | 33 mm x 33 mm                                                          |
| Case material               | Anodized aluminium                                                     |
| Rod material                | Stainless steel                                                        |
| Rod diameter                | Ø6 mm                                                                  |
| Mechanical fixing           | Variable brackets                                                      |
| IP degree                   | IP 65                                                                  |
| Operating temperature       | -20°C ... +80°C                                                        |
| Storage temperature         | -30°C ... +90°C                                                        |



| RTL (mm)                    | 30  | 50  | 75  | 100 | 125 | 130 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900  | 1000 |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| US (Usefull Stroke)         | 30  | 50  | 75  | 100 | 125 | 130 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900  | 1000 |
| MS ±0,5 (Mechanical Stroke) | 33  | 53  | 73  | 103 | 128 | 133 | 153 | 178 | 203 | 228 | 253 | 278 | 303 | 328 | 353 | 373 | 403 | 453 | 503 | 553 | 603 | 653 | 703 | 753 | 803 | 853 | 903  | 1003 |
| L (Total Length)            | 169 | 189 | 214 | 239 | 264 | 269 | 289 | 314 | 339 | 364 | 389 | 414 | 439 | 464 | 489 | 514 | 539 | 589 | 639 | 689 | 739 | 789 | 839 | 889 | 939 | 989 | 1039 | 1139 |

| Model         | Measurement stroke (mm) | Linearity (%)                                                                     | Resistance (KOhm)            | Connector / Cable    |
|---------------|-------------------------|-----------------------------------------------------------------------------------|------------------------------|----------------------|
| (example) RTL | 500                     | D                                                                                 | 5K                           | C1                   |
| RTL           | 30 ... 1000 mm          | D : ± %0,05 (>200mm)<br>± %0,1 (130-200mm)<br>± %0,2 (75-130mm)<br>± %0,5 (<75mm) | 5K : 5 KOhm<br>10K : 10 KOhm | C1 : 4 pin connector |