

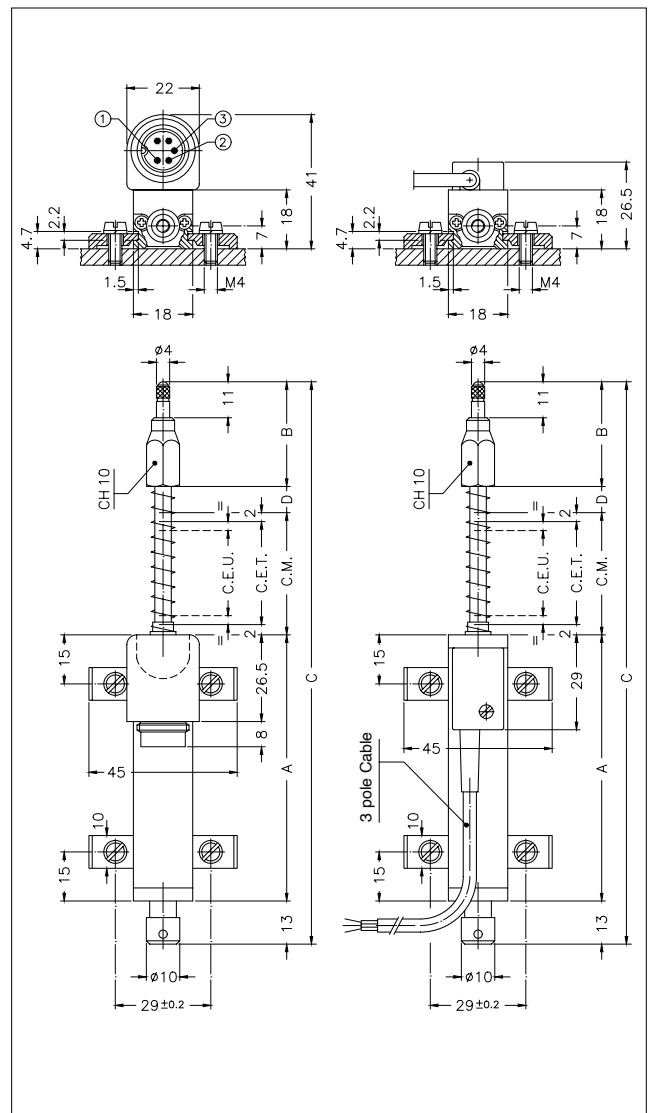
Principal characteristics

- The side connection creates a through-rod structure with double rod support, guaranteeing greater overall strength of the transducer.
- The return spring automatically returns the rod to zero position, making the transducer suitable for comparator applications.
- The tip with stainless steel ball is suitable for applications where the object to be measured is not subject to shifts transverse to the transducer axle.
- Ideal for checking the flatness or thickness of panels of various materials. Can also be used for valves or mechanical parts when the rod cannot be attached to the moving object.

TECHNICAL DATA

| | |
|--|---|
| Useful electrical stroke (C.E.U.) | from 10 to 150 mm (for intermediate strokes see table "Electrical / Mechanical Data") |
| Resolution | Infinite |
| Independent linearity (within C.E.U.) | see table |
| Displacement speed | ≤ 10 m/s |
| Displacement force | ≤ 4 N |
| Protection level | IP40 |
| Life | >25x10 ⁶ strokes, or 100x10 ⁶ operations, whichever is less (within C.E.U.) |
| Vibrations | 5...2000Hz, Amax = 0,75 mm amax. = 20 g |
| Shock | 50 g, 11ms. |
| Tolerance on resistance | ± 20% |
| Recommended cursor current | < 0,1 μA |
| Maximum cursor current | 10mA |
| Maximum applicable voltage | see table |
| Electrical isolation | >100MΩ a 500V~, 1bar, 2s |
| Dielectric strength | < 100 μA a 500V~, 50Hz, 2s, 1bar |
| Dissipation at 40°C (0W at 120°C) | see table |
| Actual Temperature Coefficient of the output voltage | < 1,5ppm/°C |
| Working temperature | -30...+100°C |
| Storage temperature | -50...+120°C |
| Case material | Anodised aluminium Nylon 66 G 25 |
| Control rod material | Stainless steel AISI 303 |
| Fixing | Brackets with variable longitudinal axis |

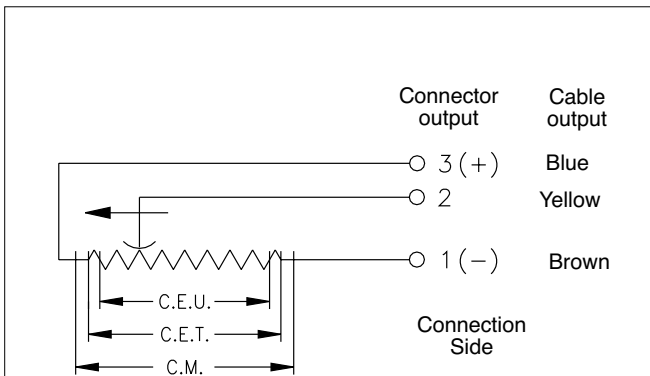
MECHANICAL DIMENSIONS



MECHANICAL / ELECTRICAL DATA

| Model | | 10 | 25 | 50 | 75 | 100 | 125 | 150 | |
|---|-----|-------------|-----|-----|-----|------|--------|-----|--|
| Useful electrical stroke (C.E.U.) +1/-0 | mm | 10 | 25 | 50 | 76 | 101 | 126 | 151 | |
| Theoretical electrical stroke (C.E.T.) ±1 | mm | C.E.U. +1 | | | 76 | 101 | GEU +1 | | |
| Resistance (C.E.T.) | kΩ | 1 | 1 | 5 | | | | | |
| Independent linearity (within C.E.U.) | ± % | 0.3 | 0.2 | 0.1 | | 0.07 | 0.05 | | |
| Dissipation at 40° (0W at 120°C) | W | 0.2 | 0.6 | 1.2 | 1.8 | 2.4 | 3 | 3.6 | |
| Maximum applicable voltage | V | 14 | 25 | 60 | | | | | |
| Mechanical stroke (C.M.) | mm | C.E.U. + 5 | | | | | | | |
| Case length (A) | mm | C.E.U. + 38 | | | | | | | |
| Tip length (B) | mm | 32 | | | 40 | | | | |
| Total length (C) | mm | 108 | 138 | 196 | 251 | 307 | 364 | 427 | |
| Quote (D) | mm | - | - | - | 5 | 11 | 18 | 31 | |

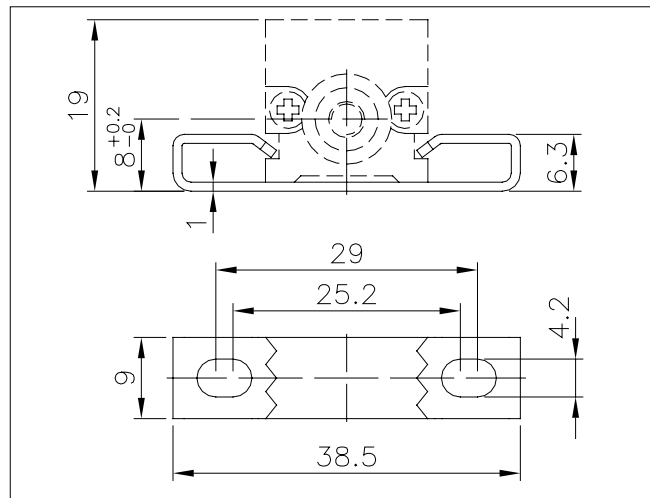
ELECTRICAL CONNECTIONS



INSTALLATION INSTRUCTIONS

- Respect the indicated electrical connections (DO NOT use the transducer as a variable resistance)
- When calibrating the transducer, be careful to set the stroke so that the output does not drop below 1% or rise beyond 99% of the supply voltage.

OPTIONAL FIXING KIT PKIT006



ORDER CODE

| | | |
|------------------------------------|---|--|
| Displacement transducer PY2 | <input type="checkbox"/> S <input type="checkbox"/> M | <input type="checkbox"/> 0 <input type="checkbox"/> 0 <input type="checkbox"/> 0 <input checked="" type="checkbox"/> X <input type="checkbox"/> 0 <input type="checkbox"/> 0 <input type="checkbox"/> 0 <input type="checkbox"/> 0 <input type="checkbox"/> 0 |
| 3 pole PVC cable output 3x0.25 1m | <input type="checkbox"/> F | No certificate attached <input type="checkbox"/> 0 Linearity curve to be attached <input type="checkbox"/> L |
| 5 pole connector output DIN 43322 | <input type="checkbox"/> C | |
| Model | <input type="checkbox"/> Cable length (in metres) | Standard mounting brackets (PKIT005) <input checked="" type="checkbox"/> X Optional mounting brackets (PKIT006) <input type="checkbox"/> S |
| | This part of the code only applies to the model with cable output | |
| | | Color of plastic heads (green) <input type="checkbox"/> 0 |

Ex.: **PY2 - C - 100**

Displacement transducer model PY2, 5-pole connector output, useful electrical stroke (C.E.U.) 100mm.

ACCESSORIES

STANDARD ACCESSORIES

| | |
|---|----------------|
| Fixing kit: 4 brackets, M4x10 screws, washer | PKIT005 |
| Fixing kit: 2 "wraparound" brackets (0000X000S00 configurator option) | PKIT006 |
| Tip with bal | PTAS000 |

OPTIONAL ACCESSORIES

| | |
|---|---------------|
| 5-pin axial female PCB connector DIN43322 IP40 clamp for wire $\varnothing 4 - \varnothing 6$ mm | CON011 |
| 5-pin axial female PCB connector DIN43322 IP65 clamp PG7 for wire $\varnothing 4 - \varnothing 6$ mm | CON012 |
| 5-pin 90° radial female PCB connector DIN43322 IP40 clamp for wire $\varnothing 4 - \varnothing 6$ mm | CON013 |

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice