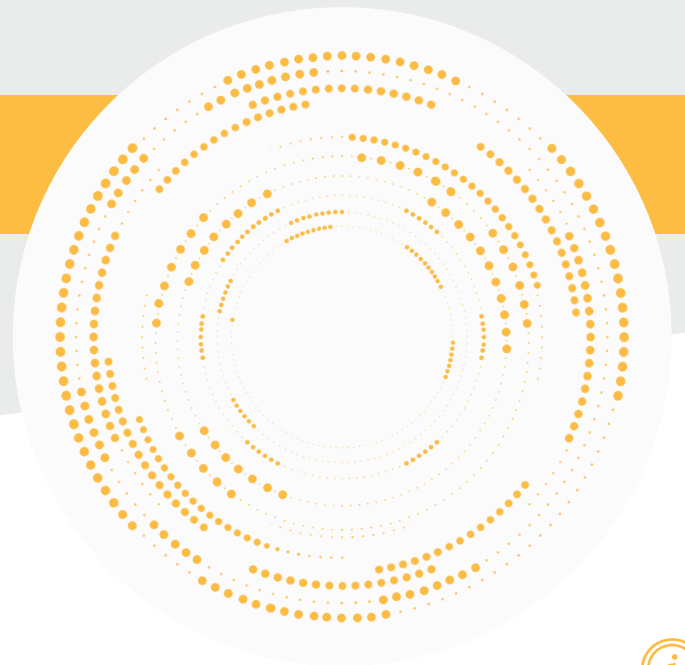


# PCT

## Spoke Type Load Cell



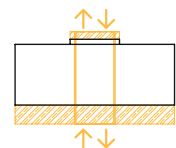
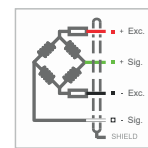
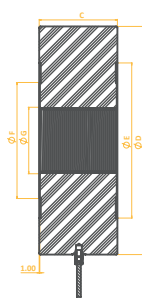
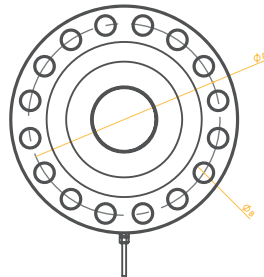
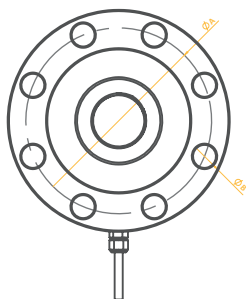
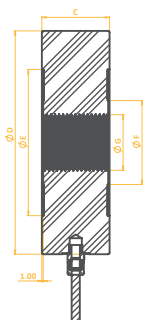
## Product Description

The PCT Spoke Type Load Cell, with a wide capacity range from 500 kg to 500 tons, is designed to meet your high-precision measurement needs. Its durable stainless steel or nickel-plated alloy body adapts to challenging industrial conditions, while the hermetic sealing feature ensures long-lasting and reliable usage.

## Technical Specifications

|                                   |                             |                                   |                         |
|-----------------------------------|-----------------------------|-----------------------------------|-------------------------|
| Capacity                          | 0.5 - 50 Ton / 75 - 500 Ton | Insulation Resistance             | ≤ 5000 MΩ (100 VDC)     |
| Accuracy Class                    | C1                          | Compensated Operating Temperature | -10 ~ +40 °C            |
| Min. Load                         | 0 kg                        | Operating Temperature             | -30 ~ +70 °C            |
| Linearity                         | ≤ ±0.05 %FS                 | Recommended Excitation Voltage    | 10 VDC                  |
| Repeatability                     | ≤ ±0.05 %FS                 | Max. Excitation Voltage (Umax)    | 15 VDC                  |
| Displacement at Nominal Load (mm) | 0.05 ~ 0.25                 | Overload Capacity                 | 150 % FS                |
| Output Gain (FS)                  | 2.00 mV/V ± 0.1 % F.S.      | Breaking Load                     | 300 % FS                |
| Zero Balance                      | ≤ ± 0.1 %FS                 | Protection Class                  | IP 68 / IP 67           |
| Input Resistance                  | 750 Ω ± 30 Ω                | Material                          | Steel / Stainless Steel |
| Output Resistance                 | 700 Ω ± 5 Ω                 | Cable                             | 4x022mm <sup>2</sup>    |

## Technical Dimensions and Drawings



## Application Areas

Strength Testing Machines  
Tensile and Breaking Test Machines

| Capacity           | A   | B                                        | C   | D   | E   | F   | G        |
|--------------------|-----|------------------------------------------|-----|-----|-----|-----|----------|
| 0.5, 1, 2.5, 5 Ton | 86  | 0.5 - 1 - 2.5 Ton 6 / Ø9<br>5 Ton 8 / Ø9 | 35  | 100 | 72  | 32  | M 20x1.5 |
| 5, 10 Ton          | 110 | 8 - Ø10.5                                | 35  | 127 | 92  | 47  | M 30x2   |
| 20, 30 Ton         | 138 | 12 - Ø17                                 | 50  | 165 | 110 | 62  | M 42x3   |
| 50 Ton             | 138 | 12 - Ø17                                 | 60  | 165 | 110 | 62  | M 42x3   |
| 75, 100 Ton        | 185 | 12 - Ø25                                 | 80  | 230 | 145 | 98  | M 60x1.5 |
| 200 Ton            | 250 | 16 - Ø25                                 | 100 | 300 | 198 | 132 | M 100x3  |
| 300 Ton *1         | 294 | 16 - Ø28                                 | 120 | 350 | 238 | 178 | M 100x3  |
| 500 Ton *1         | 294 | 16 - Ø28                                 | 130 | 350 | 238 | 178 | M 100x3  |



**LPTSENS**  
Load Cell and Industrial Weighing Systems