

Aluminum Single-Point Load Cell

1042

- Capacities : 1kgf...150kgf
- Aluminum construction
- IP66



Model

Rated Capacity

1042 -

| | |
|------|-----------------|
| 1K | 1kgf (9.8N) |
| 3K | 3kgf (29.4N) |
| 5K | 5kgf (49N) |
| 7K | 7kgf (68.6N) |
| 10K | 10kgf (98N) |
| 15K | 15kgf (147N) |
| 20K | 20kgf (196N) |
| 30K | 30kgf (294N) |
| 50K | 50kgf (490N) |
| 75K | 75kgf (735N) |
| 100K | 100kgf (980N) |
| 150K | 150kgf (1.47kN) |

Cable color code

| Item | Color |
|-----------------|--------|
| Excitation + | Green |
| Excitation - | Black |
| Signal output + | Red |
| Signal output - | White |
| Sense + | Blue |
| Sense - | Brown |
| Shield | Shield |

Specifications

| | |
|--------------------------------|--|
| Rated output (R.O.) | 2mV/V |
| Rated output tolerance | ±10% |
| Zero balance | ±10%R.O. |
| Zero return, 30 min | ±0.025%LOAD |
| Total error | ±0.02%R.O. |
| Temperature effect on zero | ±0.006%R.O./°C |
| Temperature effect on output | ±0.0014%LOAD/°C |
| Eccentric loading error | ±0.0074%LOAD/cm |
| Temperature range, compensated | -10°C~+40°C |
| Temperature range, safe | -30°C~+70°C |
| Maximum safe overload | 150%R.C. |
| Ultimate central overload | 300%R.C. |
| Excitation, recommended | 10V |
| Excitation, maximum | 15V |
| Input impedance | 415Ω±20Ω |
| Output impedance | 350Ω±3Ω |
| Insulation resistance | >2000MΩ |
| Cable type | φ5.6, 6 wire, PVC Single floating screen, AWG26 |
| Cable length | 1m |
| Construction | Plated (anodize) aluminum |
| Environmental protection | IP66 |
| Platform size (max) | 400mm×400mm |
| Recommended torque | 7N·m : [5K...30K] 10N·m : [50K...150K] |
| Weight (approx.) | 300g |
| Nominal (rated) deflection | <0.4mm |

Specifications

Dimensions

| Model | A |
|-----------------|------|
| 1042-1K...30K | 20 |
| 1042-50K...150K | 25.4 |

