

Test & Measurement

Load Cells



41, 43, 75, 73, 45, 47



MPB, UG, TG, WG



11, 13, 31, 34, 53, LFH-7I



RM, RG, LP, 81, 82

| Product Series | | | | |
|--------------------------|--|---|--|---|
| Description | pancake | cannister | miniature | in-line |
| Range | 5 lb to 500k lb | 100 lb to 3,000k lb | 50 gm to 50k lb | 5 lb to 200k lb |
| Accuracy | 0.03 % to 0.2 % | 0.03 % to 0.1 % | 0.7 % to 0.1 % | 0.25 % to 0.05 % |
| Output | mV/V, mA | mV/V, mA | mV/V, mA | mV/V, mA |
| Diameter/Height | 64 mm to 356 mm [2.5 in to 14.0 in]/ 31 mm to 165 mm [1.2 in to 6.5 in] | 36 mm to 432 mm [1.4 in to 17.0 in]/ 20 mm to 533 mm [0.8 in to 21.0 in] | 10 mm to 30 mm [0.4 in to 1.2 in]/ 5 mm to 51 mm [0.2 in to 2.0 in] | 38 mm to 89 mm [1.5 in to 3.5 in]/ 61 mm to 300 mm [2.4 in to 11.8 in] |
| Temperature Range | -54 °C to 121 °C [-65 °F to 250 °F] | -54 °C to 121 °C [-65 °F to 250 °F] | -54 °C to 121 °C [-65 °F to 250 °F] | -54 °C to 121 °C [-65 °F to 250 °F] |
| Technology | strain gauge | strain gauge | strain gauge | strain gauge |



TH, D



IC48



41a, 75a, 45a, 47a, 43a, 73a, RMa, RHa, RFa

| Product Series | | | |
|--------------------------|--|--|---|
| Description | donut | calibration | high output |
| Range | 150 gm to 200k lb | 500 lb to 10k lb | 50 lb to 200k lb |
| Accuracy | 0.5 % to 0.25 % | 0.02 % | 0.05 % to 0.2 % |
| Output | mV/V, mA | mV/V, mA | mV/V, mA |
| Diameter/Height | 13 mm to 89 mm [0.5 in to 3.5 in]/ 5 mm to 89 mm [0.2 in to 3.5 in] | 104 mm to 279 mm [4.1 in to 11.0 in]/ 112 mm to 249 mm [4.4 in to 9.8 in] | 76 mm to 279 mm [3.0 in to 11.0 in]/ 25 mm to 64 mm [1.0 in to 2.5 in] |
| Temperature Range | -54 °C to 121 °C [-65 °F to 250 °F] | -54 °C to 93 °C [-65 °F to 200 °F] | -18 °C to 85 °C [0 °F to 185 °F] |
| Technology | strain gauge | strain gauge | strain gauge |

Position & Speed Sensors

Potentiometers, Industrial Cermet & Wirewound Elements



| Product Series | 309/409 | 43/RA20 | 58/RA30 |
|--------------------|--|--|--|
| Description | 309: compact, modular housing 409: sealed for board washing | wirewound element & nickel-plated brass shafts; RA20 meets MIL-R-19 | rugged construction, wirewound element; RA30 meets MIL-R-19 |
| Rotational Life | 25k cycles | 10k cycles | 25k cycles |
| Element Type | cermet | wirewound | wirewound |
| Power Rating | 1 W | 2 W | 4 W |
| Terminal Type | PC | solder lug | solder lug |
| Resistance Range | 100 Ω to 5 M Ω | 43: 10 Ω to 50 k Ω RA20: 50 Ω to 15 k Ω | 58: 50 Ω to 50 k Ω RA30: 25 Ω to 25 k Ω |
| Bushing Type | standard | standard, locking | standard, locking |
| Potentiometer Type | industrial | — | — |
| Electrical Taper | linear | — | — |

Industrial Conductive Plastic Devices



| Product Series | 308/408 | 380/53/RV4 | 381 | 392/RV6 |
|--------------------|---|--|---|---|
| Description | 308: compact, modular housing 408: sealed for board washing | superior dynamic noise & long rotational life; meets MIL-PRF-94 where applicable | metal case & nickel-plated brass shaft & bushings | designed for wave soldering to PC boards; meets MIL-PRF-94 where applicable |
| Rotational Life | 50k cycles | 100k cycles, 25k cycles | 25k cycles | 50k cycles |
| Element Type | conductive plastic | conductive plastic | conductive plastic | conductive plastic |
| Power Rating | 0.5 W | 2 W | 1 W | 0.5 W |
| Terminal Type | PC, solder hook | solder lug | solder lug | PC |
| Resistance Range | 100 Ω to 1 M Ω , 500 Ω to 10 k Ω | 100 Ω to 5 M Ω , 50 Ω to 5 M Ω | 100 Ω to 5 M Ω | 100 Ω to 5 M Ω |
| Bushing Type | standard, locking | standard, locking | standard, locking | standard |
| Potentiometer Type | industrial | industrial | industrial | industrial |
| Electrical Taper | CW audio, linear | CW audio, linear | CW audio, linear | linear |