

## S-TYPE FORCE SENSORS (ADVANCED TYPE)

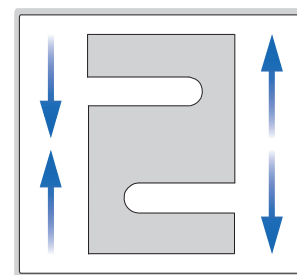
- S-type structure
- Easy and quick installation
- Stable and reliable
- Suitable for material testing machines, batching scales, electromechanical scales, packaging scales, belt scales, concrete plants and etc.

### SPECIFICATION

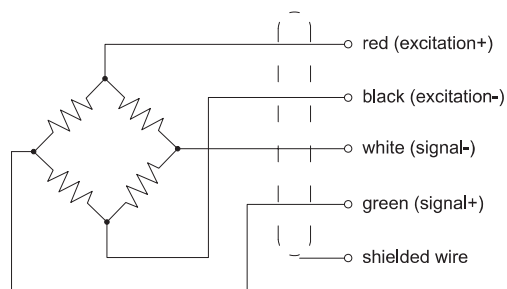
|                                   |                              |
|-----------------------------------|------------------------------|
| Creep                             | ±0.03% of rated output       |
| Nonlinearity                      | ±0.03% of rated output       |
| Hysteresis                        | ±0.03% of rated output       |
| Repeatability                     | ±0.03% of rated output       |
| Sensitivity temperature drift     | ≤0.002% of applied output/°C |
| Zero temperature drift            | ≤0.002% of rated output/°C   |
| Range of working temperature      | -31~158°F                    |
| Range of compensation temperature | 14~104°F                     |
| Safety overload                   | 150%                         |
| Insulation impedance              | ≥5000MΩ (50V DC)             |
| Recommended excitation voltage    | 10V DC/AC                    |
| Maximum excitation voltage        | 15V DC/AC                    |



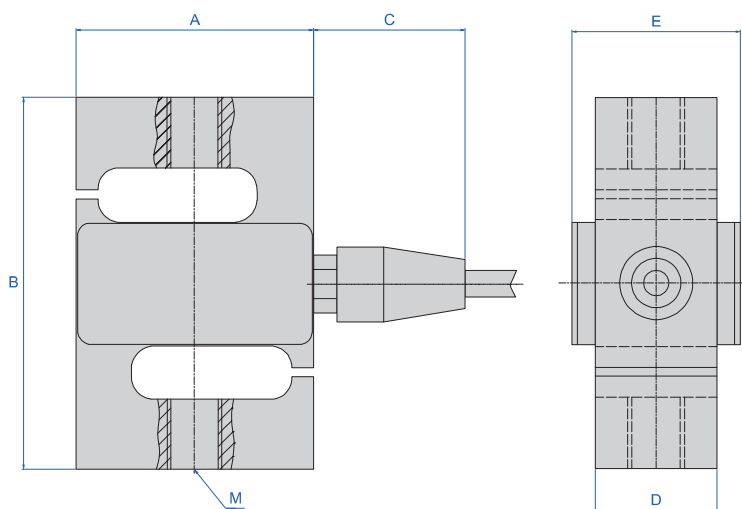
8654-100



force diagram of sensor



schematic



| Part No.  | Type (material)      | Maximum range | Rated output  | Zero balance        | Impedance                      | Cable length | A     | B     | C     | D     | E     | M        |
|-----------|----------------------|---------------|---------------|---------------------|--------------------------------|--------------|-------|-------|-------|-------|-------|----------|
| 8654-5A   | type A (aluminum)    | 5kg/50N       | 2.0±1% mV/V   | ±3% of rated output | input 410±5Ω<br>output 350±3Ω  | 108"         | 2.20" | 2.76" | .31"  | .71"  | .83"  | M8×1.25  |
| 8654-10A  |                      | 10kg/100N     |               |                     |                                |              |       |       |       |       |       |          |
| 8654-20A  |                      | 20kg/200N     |               |                     |                                |              |       |       |       |       |       |          |
| 8654-30A  |                      | 30kg/300N     |               |                     |                                |              |       |       |       |       |       |          |
| 8654-50A  |                      | 50kg/500N     |               |                     |                                |              |       |       |       |       |       |          |
| 8654-100  | type B (alloy steel) | 100kg/1000N   | 3.0±0.1% mV/V | ±1% of rated output | input 387±20Ω<br>output 350±5Ω | 236"         | 2.00" | 3.00" | 1.26" | .75"  | 1.10" | M10×1.5  |
| 8654-200  |                      | 200kg/2000N   |               |                     |                                |              | 2.00" | 3.00" | 1.26" | .75"  | 1.10" | M12×1.75 |
| 8654-250  |                      | 250kg/2500N   |               |                     |                                |              | 2.00" | 3.00" | 1.26" | .75"  | 1.10" | M12×1.75 |
| 8654-500  |                      | 500kg/5000N   |               |                     |                                |              |       |       |       |       |       |          |
| 8654-750  |                      | 750kg/7500N   |               |                     |                                |              |       |       |       |       |       |          |
| 8654-1T   |                      | 1T/10kN       |               |                     |                                |              | 2.00" | 3.00" | 1.26" | 1.00" | 1.38" | M12×1.75 |
| 8654-1D5T |                      | 1.5T/15kN     |               |                     |                                |              | 3.00" | 4.25" | 1.26" | .98"  | 1.22" | M18×1.5  |
| 8654-2T   |                      | 2T/20kN       |               |                     |                                |              |       |       |       |       |       |          |
| 8654-2D5T |                      | 2.5T/25kN     |               |                     |                                |              |       |       |       |       |       |          |
| 8654-5T   |                      | 5T/50kN       |               |                     |                                |              | 4.00" | 5.50" | .67"  | 1.23" | 1.50" | M24×2    |
| 8654-7D5T |                      | 7.5T/75kN     |               |                     |                                |              |       |       |       |       |       |          |
| 8654-10T  |                      | 10T/100kN     |               |                     |                                |              |       |       |       |       |       |          |
|           |                      |               |               |                     |                                |              | 5.00" | 7.00" | .67"  | 1.98" | 2.24" | M30×2    |