

# UNLRS

COMPACT COMPRESSION TYPE LOAD CELL



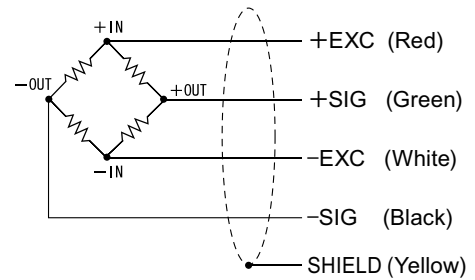
REAL SIZE



## Specifications

| Model                           | UNLRS-100N, UNLRS-100N-FG<br>UNLRS-200N, UNLRS-200N-FG |
|---------------------------------|--|
| Rated capacity                  | 100 N, 200 N   |
| Rated output                    | Approx. 1 mV/V   |
| Safe overload                   | 150% R.C.  |
| Zero balance                    | ±20% R.O.  |
| Non-linearity                   | 0.3% or less R.O.                                      |
| Hysteresis                      | 0.3% or less R.O.                                      |
| Repeatability                   | 0.1% or less R.O.                                      |
| Compensated temperature range   | 0 to +60°C   |
| Safe temperature range          | -10 to +60°C   |
| Temperature effect on zero      | 2.0% R.O./10°C or below                                |
| Temperature effect on span      | 1.0% R.O./10°C or below                                |
| Input resistance                | Approx. 350 Ω  |
| Output resistance               | Approx. 350 Ω  |
| Recommended excitation voltage  | 2.5 V  |
| Maximum excitation voltage      | 6 V  |
| Insulation resistance (DC 50 V) | 1000 MΩ or more  |
| Cable                           | φ3 4-conductor shield cable 3 m<br>Cable end: 5 wires  |
| Load cell material              | Stainless steel  |
| RoHS directives                 | 2011/65/EU (EU)2015/863                                |

## Wiring diagram



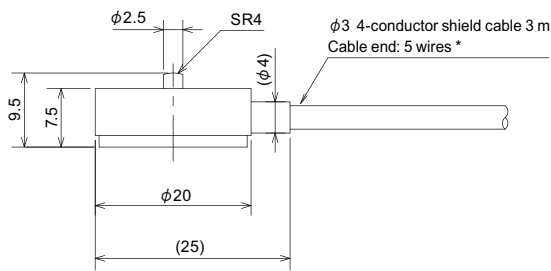
## UNLRS-FG

With fastening plate



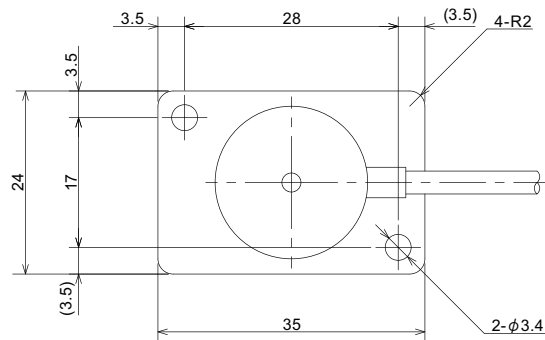
## External dimension

### UNLRS



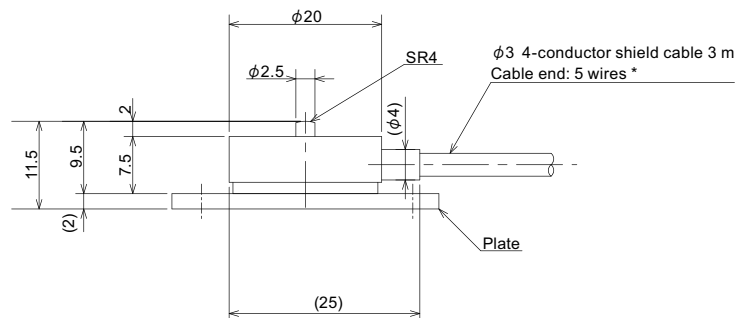
\* Do prevent force from being applied to the bottom face upon installation.

### UNLRS-FG



| Model         | Deflection at rated | Natural frequency | Weight |
|---------------|---------------------|-------------------|--------|
| UNLRS-100N    | 0.015 mm            | 21 kHz            | 5 g    |
| UNLRS-100N-FG |                     |                   | 18 g   |
| UNLRS-200N    | 0.015 mm            | 25 kHz            | 5 g    |
| UNLRS-200N-FG |                     |                   | 18 g   |

\* Connector can be attached to the cable according to your requests. Refer to 84 pages for details.



Unit: mm