

URM

TENSION / COMPRESSION TYPE LOAD CELL



REAL SIZE

Small, accurate & wide lineup of S-type load cell

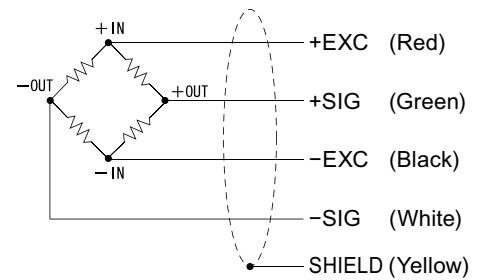


Flexible cable

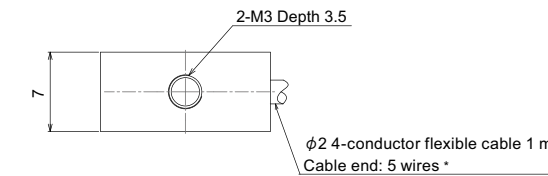
Specifications

Model	URM-50N, 100N, 200N, 500N
Rated capacity	50 N, 100 N, 200 N, 500 N
Rated output	Approx. 1 mV/V
Safe overload	200% R.C.
Zero balance	±10 mV/V
Non-linearity	0.03% or less R.O.
Hysteresis	0.03% or less R.O.
Repeatability	0.03% or less R.O.
Compensated temperature range	-10 to +60°C
Safe temperature range	-20 to +70°C
Temperature effect on zero	0.5% R.O./10°C or below
Temperature effect on span	0.5% 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	5 V
Insulation resistance (DC 50 V)	1000 MΩ or more
Cable	φ2 4-conductor flexible cable 1 m Cable end: 5 wires
Load cell material	Aluminum alloy
RoHS directives	2011/65/EU (EU)2015/863

Wiring diagram

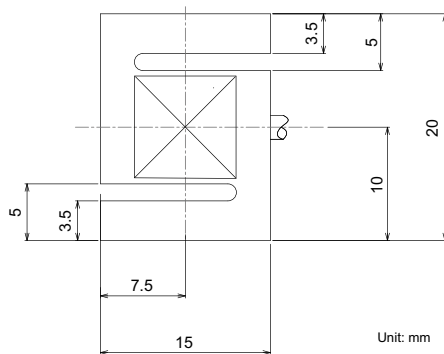


External dimension



Load direction
(-) ↑ (+) ↓

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



(-) ↓ (+) ↑
Load direction

Unit: mm

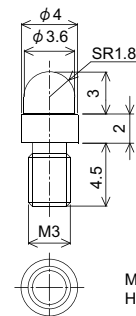
Model	Deflection at rated	Natural frequency	Weight
URM-50N	0.02 mm	3.3 kHz	6 g
URM-100N	0.04 mm	3.5 kHz	
URM-200N	0.03 mm	3.5 kHz	
URM-500N	0.05 mm	4.8 kHz	

Optional accessories

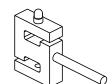
URM-LB



A load button which helps measuring compression force.



An example of mounting



Material: Steel
Hardness: more than HRC50