

URM

TENSION / COMPRESSION TYPE LOAD CELL



REAL SIZE



URM-1KN released!

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



Flexible cable

Compatible with -20 to +100°C

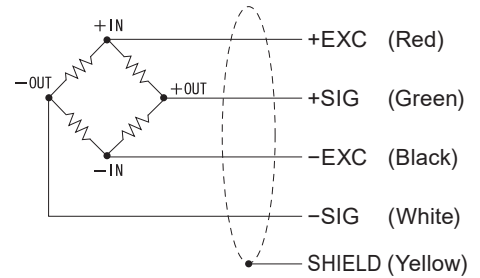
Compatible with vacuum

Specifications

Model	URM-50N, 100N, 200N, 500N	URM-1KN
Rated capacity	50 N, 100 N, 200 N, 500 N	1 kN
Rated output	Approx. 1 mV/V	
Safe overload	200% R.C.	
Zero balance	±10 mV/V	
Non-linearity	0.03% or less R.O.	0.05% or less R.O.
Hysteresis	0.03% or less R.O.	0.05% or less R.O.
Repeatability	0.03% or less R.O.	0.05% 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	Stainless steel
RoHS directives	2011/65/EU (EU)2015/863	

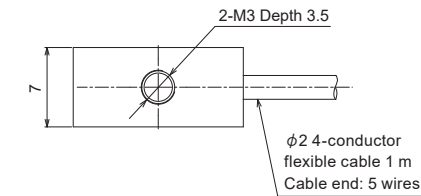
Contact us for the customization of high & low temperature and vacuum compatibilities.

Wiring diagram

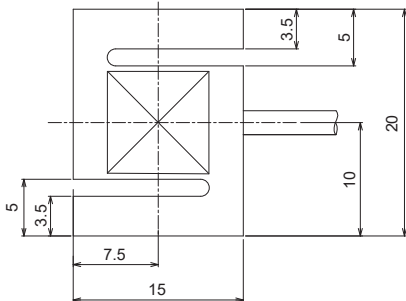


External dimension

URM-50N/100N/200N/500N

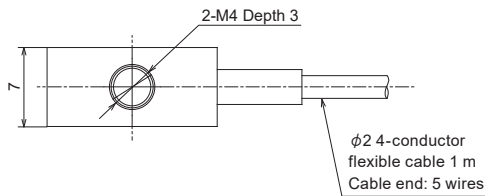


Load direction
(-) ↑ (+) ↓

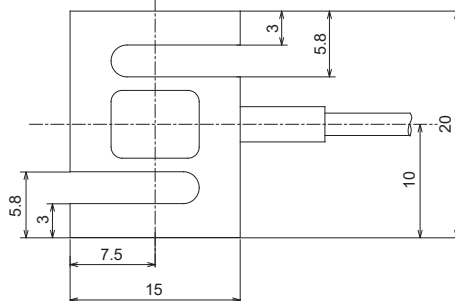


Load direction
(-) ↓ (+) ↑

URM-1KN



Load direction
(-) ↑ (+) ↓



Load direction
(-) ↓ (+) ↑

Unit: mm

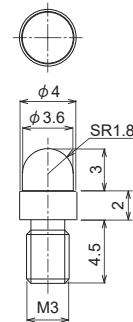
Model	Deflection at rated	Natural frequency	Weight
URM-50N	0.02 mm	3.3 kHz	6 g
URM-100N	0.04 mm	3.5 kHz	
URM-200N	0.03 mm	3.5 kHz	
URM-500N	0.05 mm	4.8 kHz	
URM-1KN	0.07 mm	4.4 kHz	10 g

Connector can be attached to the cable according to your request.

Optional accessories

A load button which helps measuring compression force.

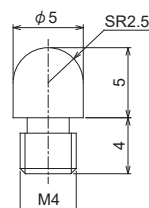
URM-LB (URM-50N/100N/200N/500N)



An example of mounting

Material: Steel
Hardness: HRC50 or above

URM-LB2 (URM-1KN)



An example of mounting

Material: Steel
Hardness: HRC55 or above