

SPECIFICATIONS

Low Capacity Universal Type
Load Cell

LOAD CELL
UL-2GR ~ 100GR

SPEC.No.EN214001-D 1/2

Performance

Rated capacity	: 19.61 mN{2 gf} ~ 980.7 mN{100 gf}
Safe overload	: 130 %R.C.
Ultimate overload	: 130 %R.C.
Rated output	: 1.75 mV/V \pm 0.35 mV/V(UL-2GR : 0.65 mV/V \pm 0.15 mV/V)
Non-linearity	: 0.3 %R.O.
Hysteresis	: 0.3 %R.O.
Repeatability	: 0.3 %R.O.

Electrical

Excitation, recommended	: 3 V or less
Excitation, at maximum	: 6 V
Zero balance	: \pm 0.175 mV/V(UL-2GR : \pm 0.05 mV/V)
Input resistance	: 270 \pm 40
Output resistance	: 270 \pm 40
Insulation resistance (Between bridge and main body)	: 1 000 M or more (DC 50 V)

Temperature

Temperature range, compensated	: 0 to 50
Temperature range, safe	: - 10 to 60
Temperature effect on zero balance	: 0.5 %R.O./10
Temperature effect on output	: 0.5 %LOAD/10

Cable : 4-cores parallel vinyl 60 cm wire directly attached.
Cable end is separated.

Class of protection : Equivalent to IP30.

Durability : 10⁶ times at rated load

Note) R.O. means Rated Output and also R.C. means Rated Capacity.

Polarity output will become minus (-) when the direction of compression load is applied.

If polarity change is required, change wiring of blue and green.

Wiring Diagram



Composition

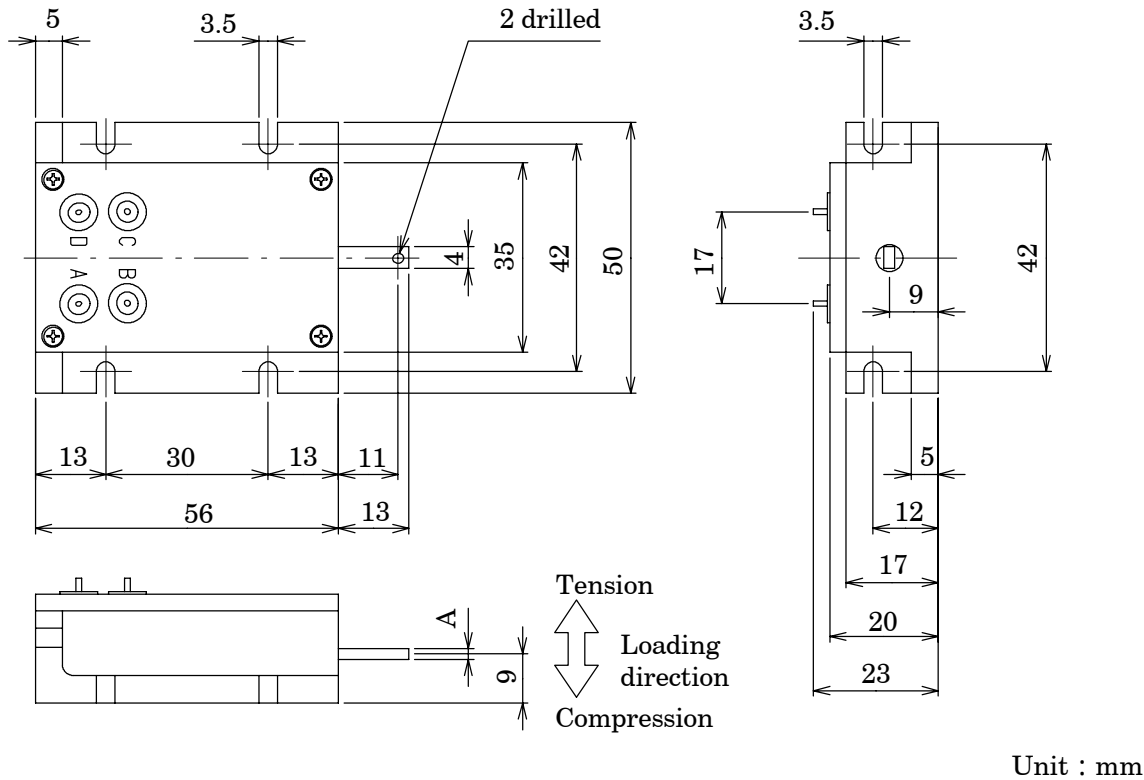
Main body	1
Inspection data	1

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Outline dimensions

Unit : mm

P/N	Rated capacity	A	Displacement	Natural frequency (Hz)	Weight (Approx. g)
UL-2GR	19.61 mN{2 gf}	2	± 0.12	60	100
UL-10GR	98.07 mN{10 gf}	1.5	± 0.4	165	100
UL-20GR	196.1 mN{20 gf}	1.5	± 0.4	210	100
UL-50GR	490.3 mN{50 gf}	1.5	± 0.4	170	100
UL-100GR	980.7 mN{100 gf}	1.5	± 0.4	230	100

Specifications and outline dimensions and so on which have printed may subject to change for the purpose of improvement without notice.