

For commercial scale U2D1- * General standard

2023/03/22

Features



- Mid capacity, tall profile.
- Accurate and reliable model.

Specification

Specification name	Specification contents
Rated capacity	29.42 N{3 kgf}~980.7 N{100 kgf}
Safe overload	200 %R.C.
Ultimate overload	300 %R.C.
Rated output	2 mV/V±0.2 mV/V
Non-linearity	0.015 %R.O.
Hysteresis	0.015 %R.O.
Repeatability	0.02 %R.O.
Creep	0.02 %R.O./20 min (U2D1-3K : 0.03 %R.O./20 min)
Creep recovery	0.02 %R.O./20 min (U2D1-3K : 0.03 %R.O./20 min)
Excitation, recommended	12 V or less
Excitation, maximum	20 V
Zero balance	±0.1 mV/V
Input resistance	400 Ω ~ 450 Ω

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Output resistance	345 Ω ~ 355 Ω
Insulation resistance	2,000 MΩ or more (DC50 V) (between bridge and main body)
Temp. range, compensated	- 10 °C ~ 50 °C
Temp. range, safe	- 10 °C ~ 50 °C
Temp. effect on zero	0.04 %R.O./10 °C
Temp. effect on output	0.012 %LOAD/10 °C
Class of protection	IP40 or equivalent
Material of element	Aluminium alloy
Durability	1,000,000 times with rated load applied.
Effect of eccentric load	<ul style="list-style-type: none"> • The maximum size of loading plate : 400 mm x 600 mm • The center of loading plate and also center of load cell should be the same position • Error is within 0.02 %R.O. applied with 1/2 of rated capacity at the position of 150 mm of eccentricity.

Table of P/N

Parts No.	Rated capacity [N]	Rated capacity [kgf]	Weight(Approx.) [g]	Natural frequency [Hz]	Rated displacement [mm]	Class of protection
U2D1-3K	29.42	3	350	95	0.48	IP40 or equivalent
U2D1-6K	58.84	6	350	140	0.48	IP40 or equivalent
U2D1-10K	98.07	10	350	180	0.45	IP40 or equivalent
U2D1-15K	147.1	15	350	230	0.41	IP40 or equivalent
U2D1-20K	196.1	20	350	280	0.38	IP40 or equivalent
U2D1-25K	245.2	25	550	550	0.56	IP40 or equivalent
U2D1-50K	490.3	50	550	550	0.61	IP40 or equivalent
U2D1-100K	980.7	100	800	340	0.53	IP40 or equivalent

Parts No.	3D CAD files [STEP]	CAD files [DXF]
U2D1-3K	U2D1-3K.STEP	u2d1_3k~20k.dxf
U2D1-6K	U2D1-6K.STEP	u2d1_3k~20k.dxf
U2D1-10K	U2D1-10K.STEP	u2d1_3k~20k.dxf

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U2D1-10K	U2D1-10K.STEP	u2d1_3k~20k.dxf
U2D1-15K	U2D1-15K.STEP	u2d1_3k~20k.dxf
U2D1-20K	U2D1-20K.STEP	u2d1_3k~20k.dxf
U2D1-25K	U2D1-25K.STEP	u2d1_25k~50k.dxf
U2D1-50K	U2D1-50K.STEP	u2d1_25k~50k.dxf
U2D1-100K	U2D1-100K.STEP	u2d1_100k.dxf