

For commercial scale U2D1- * -C3 OIML standard

2023/03/22

Features



- Mid capacity, tall profile.
- Accurate and reliable model with OIML R60 C3 certified.

Specification

Specification name	Specification contents
Accuracy class	OIML R60 C3
Maximum scale interval	3,000
Rated capacity	6kg~25kg
Minimum detected scale (Vmin)	0.6g~2.5g
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	2 mV/V±0.2 mV/V
Non-linearity	0.015 %R.O.
Hysteresis	0.015 %R.O.
Repeatability	0.010 %R.O.
Creep	0.016 %R.O./30 min
Creep recovery	0.016 %R.O./30 min
Excitation. recommended	12 V or less

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Excitation, maximum	20 V
Zero balance	±0.1 mV/V
Input resistance	400 Ω ~ 450 Ω
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~40 °C
Temp. range, safe	-10 °C~40 °C
Temp. effect on zero	0.014 %R.O./10 °C
Temp. effect on output	0.012 %LOAD/10 °C
Class of protection	IP40 or equivalent
Material of element	Alluminium 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 [kg]	Weight(Approx.) [g]	Natural frequency [Hz]	Rated displacement [mm]	Class of protection	3D CAD files [STEP]
U2D1-6K-C3	6	350	140	0.48	IP40 or equivalent	U2D1-6K-C3.STEP
U2D1-10K-C3	10	350	180	0.45	IP40 or equivalent	U2D1-10K-C3.STEP
U2D1-15K-C3	15	350	230	0.41	IP40 or equivalent	U2D1-15K-C3.STEP
U2D1-20K-C3	20	350	280	0.38	IP40 or equivalent	U2D1-20K-C3.STEP
U2D1-25K-C3	25	550	550	0.56	IP40 or equivalent	U2D1-25K-C3.STEP

Parts No.	CAD files[DXF]
U2D1-6K-C3	u2d1_3k~20k.dxf
U2D1-10K-C3	u2d1_3k~20k.dxf
U2D1-15K-C3	u2d1_3k~20k.dxf
U2D1-20K-C3	u2d1_3k~20k.dxf
U2D1-25K-C3	u2d1_25k~50k.dxf

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