

S-beam type General spec.

2023/03/22

Features



Suitable for the weighing systems, such as hopper, tank, etc.

Specification

Specification name	Specification contents
Rated capacity	1.961 N{200 kgf}~19.61 kN{2 tf}
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	Tension load : -2 mV/V±0.02 mV/V, Compression load : 2 mV/V±0.02 mV/V
Non-linearity	0.025 %R.O.
Hysteresis	0.025 %R.O.
Repeatability	0.025 %R.O.
Creep	0.025 %R.O./20 min
Creep recovery	0.025 %R.O./20 min
Excitation, recommended	12 V or less
Excitation, maximum	20 V
Zero balance	±0.02 mV/V
Input resistance	380 Ω ~ 460 Ω
Output resistance	345 Ω ~ 355 Ω

S-beam type General spec.

2023/03/22

Insulation resistance	2,000 MΩ or more (DC50 V) (between bridge and main body)
Temp. range, compensated	-10 °C~70 °C
Temp. range, safe	-20 °C~80 °C
Temp. effect on zero	0.05 %R.O./10 °C
Temp. effect on output	0.02 %LOAD/10 °C
Class of protection	IP68 or equivalent
Material of element	Stainless Steel
Durability	1,000,000 times with rated load applied.

Table of P/N

Parts No.	Rated capacity [kN]	Weight(Approx.) [kg]	Natural frequency [Hz]	Rated displacement [mm]	Cable	3D CAD files [STEP]
U2S1-200K	1.961	0.90	2000	0.10	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs are attached at cable end.	U2S1-200K.STEP
U2S1-250K	2.452	0.90	2000	0.10	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs are attached at cable end.	U2S1-250K.STEP
U2S1-500K	4.903	0.90	2000	0.15	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs are attached at cable end.	U2S1-500K.STEP
U2S1-1T	9.807	0.90	2000	0.30	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs are attached at cable end.	U2S1-1T.STEP
U2S1-2T	19.61	2.00	2500	0.30	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs are attached at cable end.	U2S1-2T.STEP

Parts No.	CAD files[DXF]	Specification sheet	Instruction Manual
U2S1-200K	u2s1_200k.DXF	No.KT52709-2_B	No.ENKT60247-1-G
U2S1-250K	u2s1_200k.DXF	No.KT52709-2_B	No.ENKT60247-1-G
U2S1-500K	u2s1_200k.DXF	No.KT52709-2_B	No.ENKT60247-1-G
U2S1-1T	u2s1_200k.DXF	No.KT52709-2_B	No.ENKT60247-1-G

S-beam type General spec.

2023/03/22

U2S1-2T	u2s1_2t.DXF	No.KT52709-2_B	No.ENKT60247-1-G
---------	-----------------------------	--------------------------------	----------------------------------

Options

load button

Spherical rod end