

S-beam type OIML standard

2023/03/22

Features



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

Specification

Specification name	Specification contents
Accuracy class	OIML R60 C3
Maximum scale interval	3,000
Rated capacity	200kg~2t
Minimum detected scale	20g~200g
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	0.023 %R.O.
Hysteresis	0.023 %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
Max. excitation	20 V

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Zero balance	±0.02 mV/V
Input resistance	420 Ω±40 Ω
Output resistance	350 Ω±5 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	-20 °C~80 °C
Temp. effect on zero	0.014 %R.O./10 °C
Temp. effect on output	0.012 %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 [kg]	Rated capacity [t]	Weight(Approx.) [kg]	Natural frequency [Hz]	Rated displacement [mm]	Cable
U2S1-200K-C3	200		0.9	2000	0.10	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs at cable end.
U2S1-250K-C3	250		0.9	2000	0.10	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs at cable end.
U2S1-500K-C3	500		0.9	2000	0.15	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs at cable end.
U2S1-1T-C3		1	0.9	2000	0.30	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs at cable end.
U2S1-2T-C3		2	2.0	2500	0.30	φ4.7, 4-cores shielded 6 m cable directly attached with Y-type crimp terminal lugs at cable end.

Parts No.	3D CAD files [STEP]	CAD files[DXF]	Specification sheet	Instruction Manual
U2S1-200K-C3	U2S1-200K.STEP	u2s1_200k.DXF	No.KT53538-2_A	No.ENKT60247-1-G
U2S1-250K-C3	U2S1-250K.STEP	u2s1_200k.DXF	No.KT53538-2_A	No.ENKT60247-1-G
U2S1-500K-C3	U2S1-500K.STEP	u2s1_200k.DXF	No.KT53538-2_A	No.ENKT60247-1-G
U2S1-1T-C3	U2S1-1T.STEP	u2s1_200k.DXF	No.KT53538-2_A	No.ENKT60247-1-G
U2S1-2T-C3	U2S1-2T.STEP	u2s1_250k.DXF	No.KT53538-2_A	No.ENKT60247-1-G

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U231-F1-FG	U231-F1-F1-F	U231-F1-DX1	NO. R133336-F2_A	NO. LNK10024-F1-FG
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Options

load button

Spherical rod end