

## S-beam type

2023/03/22

## Features



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

## Specification

Specification name	Specification contents
Rated capacity	980.7 N{100 kgf}~49.03kN{5 tf}
Safe overload	150 %R.C.
Ultimate overload	200 %R.C.
Rated output	Tension load : -3 mV/V±0.003 mV/V, Compression load : 3 mV/V±0.015 mV/V
Non-linearity	0.025 %R.O.
Hysteresis	0.025 %R.O.
Repeatability	0.025 %R.O.
Creep	0.03 %R.O./20 min
Creep recovery	0.03 %R.O./20 min
Excitation, recommended	12 V or less
Excitation, maximum	20 V
Zero balance	±0.03 mV/V
Input resistance	420 Ω±40 Ω
Output resistance	350 Ω±5 Ω

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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	IP67 or equivalent (JIS C0028, normal operation after 10 cycles are over.)
Material of element	Alloy steel
Paint	Painted by epoxy resin (Black)
Durability	1,000,000 times with rated load applied.

## Table of P/N

Parts No.	Rated capacity [N]	Rated capacity [kN]	Weight(Approx. ) [kg]	Natural frequency [Hz]	Rated displacement [mm]	Cable
U3S1-100K-NS	980.7		0.8	1500	0.15	φ4.7, 4-cores shielded 6 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
U3S1-200K-NS		1.961	0.8	1700	0.14	φ4.7, 4-cores shielded 6 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
U3S1-500K-NS		4.903	0.8	2000	0.14	φ4.7, 4-cores shielded 6 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
U3S1-1T-NS		9.807	0.8	2500	0.13	φ4.7, 4-cores shielded 6 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
U3S1-2T-NS		19.61	1.9	2300	0.15	φ4.7, 4-cores shielded 6 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.
U3S1-5T-NS		49.03	2.7	2000	0.18	φ4.7, 4-cores shielded 6 m cable directly attached, Y-type crimp terminal lugs are attached at cable end.

Parts No.	3D CAD files [STEP]	CAD files [DXF]	Specification sheet	Instruction Manual
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Parts No.	3D CAD files [STEP]	CAD files [DXF]	Specification sheet	Instruction Manual
U3S1-100K-NS	<a href="#">U3S1-100K-NS.STEP</a>	<a href="#">u3s1_100k.dxf</a>	<a href="#">No.KT53431-2-B</a>	<a href="#">No.ENKT60247-1-G</a>
U3S1-200K-NS	<a href="#">U3S1-200K-NS.STEP</a>	<a href="#">u3s1_200k.dxf</a>	<a href="#">No.KT53431-2-B</a>	<a href="#">No.ENKT60247-1-G</a>
U3S1-500K-NS	<a href="#">U3S1-500K-NS.STEP</a>	<a href="#">u3s1_200k.dxf</a>	<a href="#">No.KT53431-2-B</a>	<a href="#">No.ENKT60247-1-G</a>
U3S1-1T-NS	<a href="#">U3S1-1T-NS.STEP</a>	<a href="#">u3s1_200k.dxf</a>	<a href="#">No.KT53431-2-B</a>	<a href="#">No.ENKT60247-1-G</a>
U3S1-2T-NS	<a href="#">U3S1-2T-NS.STEP</a>	<a href="#">u3s1_2t.dxf</a>	<a href="#">No.KT53431-2-B</a>	<a href="#">No.ENKT60247-1-G</a>
U3S1-5T-NS	<a href="#">U3S1-5T-NS.STEP</a>	<a href="#">u3s1_5t.dxf</a>	<a href="#">No.KT53431-2-B</a>	<a href="#">No.ENKT60247-1-G</a>

## Options

load button

Spherical rod end