

OSC 92OT100 Multi Component Load Cell Series

In order to respond to the demand of research and development in every field, our multi component load cells which have various shapes and functions, structures in compliance with the purpose of use and applications are standardized. Further, MULTI COMPONENT MEASURING UNIT and APPLIED MEASURING UNIT can be used in the field of complex force measurement

<Features>

- Wide variety of load cells from 1 component to 6 components
- Wide range of load capacity
- High measuring resolution of 1/10000
- High accuracy by matrix operation possible
- High stability against temperature

OSC 92OT101 Single Component Force Load Cell

<Common Specifications>

Model	OSC 92OT101
Rated output	Approx. 0.75mV/V (approx. 1500×10^{-6} strain)
Non-linearity	$\pm 0.2\%FS$
Hysteresis	$\pm 0.2\%FS$
Allowed overload	$\pm 150\%FS$ (Mechanical stopper shall be applied for any capacity)
Cross talk	-When the rated load is applied in the Fz direction: $\pm 1\%FS/FS$ -When a load equivalent to the rated load is applied in the -Fz direction to a position which is 30cm below the pressure detection-surface: $\pm 0.3\%FS/FS$
Temperature influence on the zero point	$\pm 0.01\%FS/$
Temperature influence on the sensitivity	$\pm 0.05\%Reading/$
Cable connection	NDI connector length = 5m

<Specifications of respective types>

Type	Rated load (Allowable load / Allowable moment)						Fitting Screw d	Weight Approx Kg
	(N) Fx	(N) Fy	(N) Fz	(Nm) Mx	(Nm) My	(Nm) Mz		
-10N	10	(10)	(100)	(3)	(3)	(1.5)	M4	1.2
-20N	20	(20)	(200)	(6)	(6)	(3.0)	M4	1.2
-30N	30	(30)	(200)	(9)	(9)	(4.5)	M4	1.2
-50N	50	(50)	(300)	(15)	(15)	(7.5)	M6	1.2
-100N	100	(100)	(500)	(30)	(30)	(15)	M6	1.2
-200N	200	(200)	(800)	(60)	(60)	(30)	M8	1.2
-300N	300	(300)	(1,000)	(90)	(90)	(45)	M8	2.5
-500N	500	(500)	(1,200)	(150)	(150)	(75)	M8	4.5

