

OSC 92OT110 3 - Component Load Cell



<Common Specifications>

Model	OSC 92OT110
Rated output	Approx. 0.5mV/V (approx. 1000×10^{-6} strain) for each component force
Non-linearity	$\pm 0.2\%$ FS for each component force
Hysteresis	$\pm 0.2\%$ FS for each component force
Allowed overload	$\pm 150\%$ FS for each component force
Cross talk*	- Between Fx, Fy : $\pm 2\%$ FS/FS - Fx, Fy by Mz : $\pm 3\%$ FS/FS - Mz by Fx, Fy : $\pm 2\%$ FS/FS - By Mx, My : $\pm 3\%$ FS/FS
Temperature influence on the zero point	$\pm 0.01\%$ FS/ for each component force
Temperature influence on the sensitivity	$\pm 0.05\%$ Reading/ for each component force
Cable connection	NDI connector length = 5m

* For the rated load, allowable load and allowable moment

<Specifications of respective types>

Type	Rated Load (Allowable load/ moment)						Dimensions (mm)										Weight Approx. Kg
	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)	L ₁	L ₂	L _c *	ϕD_1	ϕD_2	ϕD_3	ϕD_4	Fitting screw			
														d	h		
-10N	10	(40)	10	(4)	5	(1)	100	10	50	88	75	65	20	M4	8	1.5	
-20N	20	(80)	20	(8)	10	(2)	100	10	50	88	75	65	20	M4	8	1.5	
-50N	50	(150)	50	(20)	20	(5)	110	12	55	98	80	65	20	M5	10	2	
-100N	100	(300)	100	(40)	40	(10)	110	12	55	98	80	65	20	M5	10	2	
-200N	200	(600)	200	(80)	80	(20)	120	12	60	118	98	85	15	M8	10	5	
-300N	300	(800)	300	(150)	150	(30)	120	12	60	118	98	85	15	M8	10	5	
-500N	500	(1000)	500	(250)	250	(50)	120	12	60	118	98	85	15	M8	14	5	
-1000N	1000	(1500)	1000	(400)	400	(200)	158	17	80	138	118	100	20	M8	18	7	
-2000N	2000	(3000)	2000	(600)	600	(300)	200	20	100	178	150	120	30	M12	18	10	

* L_c: the position of the moment center is indicated by a reference value.

