

OSC 92OT109 3 - Component Load Cell



<Common Specifications>

Model	OSC 92OT109
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
	(N)	(N)	(N)	(Nm)	(Nm)	(Nm)	L ₁	L ₂	L _c *	φD ₁	φD ₂	φD ₃	Fitting screw			
	F _x	F _y	F _z	M _x	M _y	M _z							d	h		
-10N	10	10	(100)	(4)	5	(1)	95	2	47.5	88	75	65	M5	10	1.5	
-20N	20	20	(200)	(8)	10	(2)	95	2	47.5	88	75	65	M5	10	1.5	
-50N	50	50	(400)	(20)	20	(5)	95	2	47.5	88	75	65	M5	10	1.5	
-100N	100	100	(600)	(40)	40	(10)	95	2	47.5	88	75	65	M5	10	1.5	
-200N	200	200	(1000)	(80)	80	(20)	95	2	47.5	88	75	65	M5	10	1.5	
-300N	300	300	(1500)	(150)	150	(30)	100	3.5	50	108	90	75	M8	15	4	
-500N	500	500	(2000)	(250)	250	(50)	100	3.5	50	108	90	75	M8	15	4	
-1000N	1000	1000	(2500)	(500)	500	(100)	132	4	66	138	120	95	M10	15	7	

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

