

OSC 92OT114 3 - Component Load Cell, Waterproof

(Water pressure compensation)



<Common Specifications>

Model	OSC 92OT110
Rated output	Approx. 0.5mV/V (approx. 1000×10^{-6} strain) for each component force
Non-linearity	$\pm 0.5\%$ FS for each component force
Hysteresis	$\pm 0.5\%$ 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	$\pm 0.05\%$ (-2~-10NWP) or $\pm 0.03\%$ (-20~-2000NWP) Reading/ for each component force
Cable connection	Waterproof connector length = 5m
Water pressure compensation	Water depth 0~5m

* 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) Fx	(N) Fy	(N) Fz	(Nm) Mx	(Nm) My	(Nm) Mz	L ₁	L ₂	L _c *	ϕD_1	ϕD_2	ϕD_3	Fitting screw		
-20NWP	20	(80)	20	(8)	10	(2)	140	13	70	120	100	85	M5	10	1.5
-50NNWP	50	(150)	50	(20)	20	(5)	140	13	70	120	100	85	M5	10	2
-100NNWP	100	(300)	100	(40)	40	(10)	140	13	70	120	100	85	M6	10	2
-200NNWP	200	(600)	200	(80)	80	(20)	175	13	80	140	120	95	M8	10	25
-300NNWP	300	(800)	300	(150)	150	(30)	175	13	80	140	120	95	M8	10	25
-500NNWP	500	(1000)	500	(250)	250	(50)	175	13	80	140	120	95	M8	12	25
-1000NNWP	1000	(1500)	1000	(400)	400	(200)	200	17	90	160	140	120	M10	12	25
-2000NNWP	2000	(3000)	2000	(600)	600	(300)	240	22	110	200	180	155	M12	15	25

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

