

# OSC 92OT107 3 - Component Load Cell



## <Common Specifications>

Model	OSC 92OT107
Rated output	Approx. 0.5mV/V (approx. $1000 \times 10^{-6}$ 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 the measured component forces : $\pm 2\%$ FS/FS -By other component forces : $\pm 3\%$ 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

\*\* A waterproof type is available.

Dimensions will be different from the standard type

## <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 <sub>1</sub>	L <sub>2</sub>	L <sub>c</sub> *	$\phi D_1$	$\phi D_2$	$\phi D_3$	$\phi D_4$	Fitting screw			
														d	h		
-10N	10	10	10	(2.5)	(2.5)	(2.5)	115	10	57.5	88	75	65	20	M4	8	1	
-20N	20	20	20	(5)	(5)	(5)	115	10	57.5	88	75	65	20	M4	8	1	
-50N	50	50	50	(12.5)	(12.5)	(12.5)	130	12	65	98	78	65	20	M5	10	1	
-100N	100	100	100	(25)	(25)	(25)	130	12	65	98	78	65	20	M5	10	2	
-200N	200	200	200	(50)	(50)	(50)	150	12	75	118	98	85	15	M8	10	2	
-500N	500	500	500	(100)	(100)	(80)	150	12	75	118	98	85	15	M8	10	6	
-1000N	1000	1000	1000	(250)	(250)	(150)	170	17	85	138	118	100	20	M8	14	7.5	
-2000N	2000	2000	2000	(500)	(500)	(300)	230	20	110	178	150	120	30	M12	18	10	

\* L<sub>c</sub>: the position of the moment center is indicated by a reference value.

