

Short description X-Y Force Transducer 2FF01

The X-Y transducer of the model range 2FF01 is a 2-component sensor, which is well qualified for many applications where forces have to be measure in the direction X and Y. Regardless of the high requirements in the proof and test technology, the flat and compact design ensure a small space requirement with good performance. In particular, the so-called "tire uniformity test", which represents a standard in the industrial area of tire production and where a 100% online test is necessary, are its strong points.



- Nominal load 1000 / 500 lb - 2000 / 500 lb
- For static and dynamic application
- Accuracy 0,1 %
- Widespread mounting dimension
- Stainless high-grade steel
- Low crosstalk of <math><0,1\%</math>

Technical Data

Nominal Load	$\pm F_x$ $\pm F_y$	lb	1000 500	1500 500	2000 500
Rated load	$\pm F_x$ $\pm F_y$	N	4448 2224	6672 2224	8896 2224
Accuracy		%	$\pm 0,1$		
Linearity error	d_{lin}	%	$\pm 0,1$		
Hysteresis	h	%	$\pm 0,05$		
Reproducibility		%	$\pm 0,05$		
Rel. zero-point return	f_o	%	1		
Creep		%	$\pm 0,05$		
Nominal temp. range		$^{\circ}\text{C}$	+10 up to +60		
Operating temperature		$^{\circ}\text{C}$	-15 up to +85		
Temperature effect on characteristic value	TK_C	%/10K	0,03		
Temperature effect on zero signal	TK_0	%/10K	0,03		
Rated characteristic value	C_{nom}	mV/V	2		
Input resistance	R_e	Ω	ca. 1000		
Range of supply voltage	$B_{U,G}$	V	5 - 15		
Overload limit		%	150		
Protection class (EN 60529)		IP	40		

Nominal load	$\pm F_x$ $\pm F_y$	lb	1000 - 2000 500
Rated load	$\pm F_x$ $\pm F_y$	N	4448 - 8896 2224
Height	$H1$	mm	28,5
Height	$H2$	mm	25,4
Height	$H3$	mm	33
Diameter	$D1$	mm	177,8
Width	$W1$	mm	104
Width	$W2$	mm	76,2
Width	$W3$	mm	6,35
Pitch circle diameter	$P1$	mm	159
Bore	$B1$	mm	11
Bore	$B2$	mm	19 E9
Length	$L1$	mm	16,5
Length	$L2$	Mm	25

