

Web tension load cell series



Features

Capacity 100N-30000N

High accuracy

Size avaiable for every applications

Nickel plated alloy steel

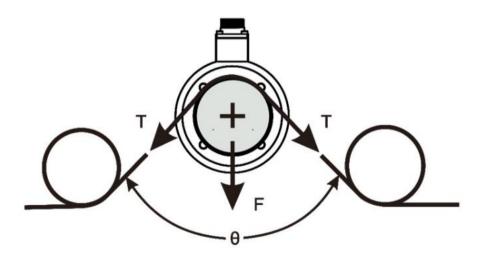
Optional features

Stainless steel construction

DESCRIPTION

The ZMZL series tension sensors offer the highest accuracy, reliability, and durability in the industry. Utilizing a combination of stainless steel construction, a built in mechanical hard stop, and individual sensor performance verification, the ZMZL series tension sensors are perfect for all high performance running web applications.

INSTALLATION

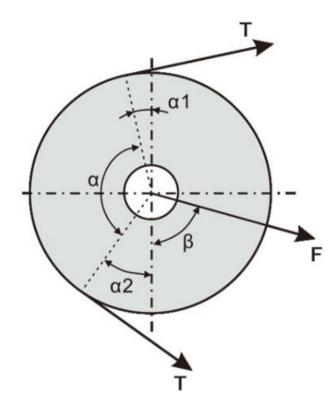


0≤θ≤150°

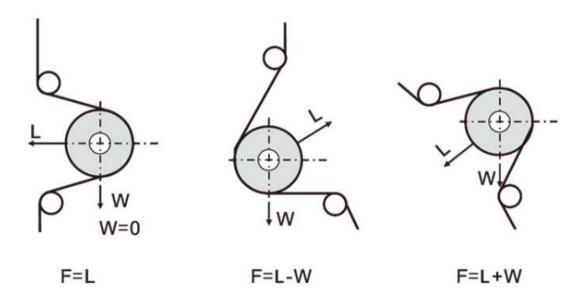
T=Material tension F=force on web tension load cell



HOW TO CHOOSE CAPACITY

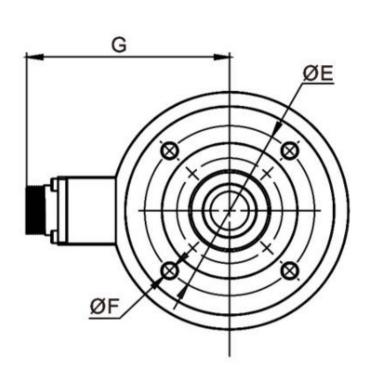


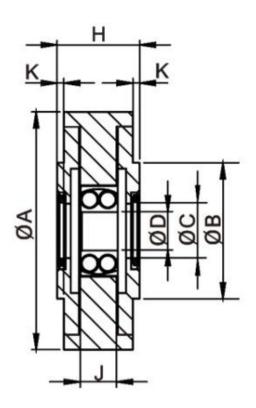
$$F=2\times T\times SIN\frac{\alpha}{2}$$
 where $\beta=\alpha 1+\frac{\alpha}{2}$



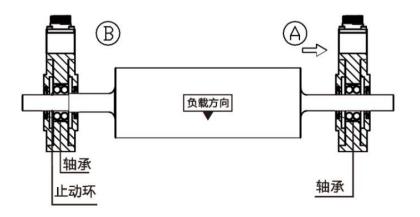


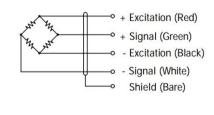
Dimensions in mm





并数据											
型号	(統立共長/1/2)	外形尺寸									
至号	额定荷重(kg)	Α	В	С	D	E	F	G	н	J	K
TTS-10-17	10	105	60	22	17	75	6.5	90	36.5	16	3
TTS-15-17	15	105	60	22	17	75	6.5	90	36.5	16	3
TTS-25-17	25	105	60	22	17	75	6.5	90	36.5	16	3
TTS-50-17	50	105	60	22	17	75	6.5	90	36.5	16	3
TTS-75-25	75	125	70	31	25	95	6.5	100	47.5	18	4
TTS-100-25	100	125	70	31	25	95	6.5	100	47.5	18	4
TTS-150-35	150	175	100	44	35	135	8.5	125	65	23	4
TTS-300-35	300	175	100	44	35	135	8.5	125	65	23	4
TTS-500-65	500	265	160	80	65	220	10.5	170	80	33	4
TTS-1000-65	1000	265	160	80	65	220	10.5	170	80	33	4
TTS-2000-65	2000	265	160	80	65	220	10.5	170	80	33	4
TTS-3000-65	3000	265	160	80	65	220	10.5	170	80	33	4







SPECIFICATIONS

PARAMETER	VALUE	UNIT		
Standard capacities (Emax)	100-30000	N		
Rated output-R.O.	1.0	mV/V		
Zero balance	1	±% of rated output		
Non linearity	0.3	±% of rated output		
Hysteresis	0.2	±% of rated output		
Non-repeatability	0.1	±% of rated output		
Creep error (30 minutes)	0.03	±% of rated output		
Zero return (30 minutes)	0.03	±% of rated output		
Temperature effect on min. dead load output	0.0026	±% of rated output/°C		
Temperature effect on sensitivity	0.0015	±% of rated output/°C		
Compensated temperature range	-10 to +40	°C		
Operating temperature range	-20 to +60	°C		
Safe overload	150	% of R.C		
Ultimate overload	200	% of R.C		
Excitation, recommended	10	Vdc		
Excitation, maximum	15	Vdc		
Input resistance	380±10	Ohms		
Output resistance	350±3	Ohms		
Insulation resistance	5000	Mega-Ohms		
Material	Alloy steel			
Protection class	IP66			

All specifications listed subject to change without notice.