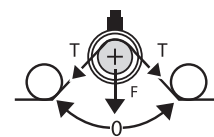
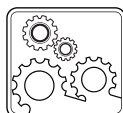


BW050

Web Tension Load Cell



Applications



Industrial
Processes



Paper, Film, Foil



Wire, Cable, Hose

Key Features

- Capacities: 100 kg
- Extremely robust
- Stainless steel
- Flange mounting
- Easy installation
- Overload protection

Web processing at optimum web tension is a goal that must be achieved to produce high-quality material in many web processing industries, such as paper, cable, foil, rubber, plastic, lamination, etc. For this purpose, providing optimum web tension control during winding and unwinding assures that the web processing is fed smoothly and prevents web damage.

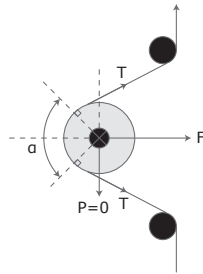
The BW050 series of web tension load cells sensitively detect the resultant force caused by pulling the material based on the wrap angle by being installed on the roll shaft directly and easily.

BW050 tension measuring load cells are made of stainless steel and have a wide range of capacity options depending on the application.

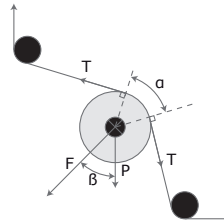
Technical Specifications

Model		BW050
Capacity (E_{max})	kg	100
Accuracy class	%	0.5
Rated output (RO)	mV / V	1.8 ± 0.20
Combined error	%RO	≤ 0.5
Safe load limit	% E_{max}	150
Ultimate load	% E_{max}	200
Zero balance	%RO	≤ 0.5
Excitation voltage, recommended	V (DC)	5 - 12
Excitation voltage, maximum	V (DC)	15
Input resistance	Ω	350
Output resistance	Ω	350
Insulation resistance (at 100 V DC)	M Ω	≥ 5000
Compensated temperature range	$^{\circ}\text{C}$	- 10...+ 40
Operating temperature range	$^{\circ}\text{C}$	- 30...+ 70
Material		Stainless steel 17-4PH
Protection class		IP67
Cable		3 m black (4 x 0.22 mm ²)

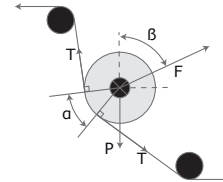
Horizontal Resultant



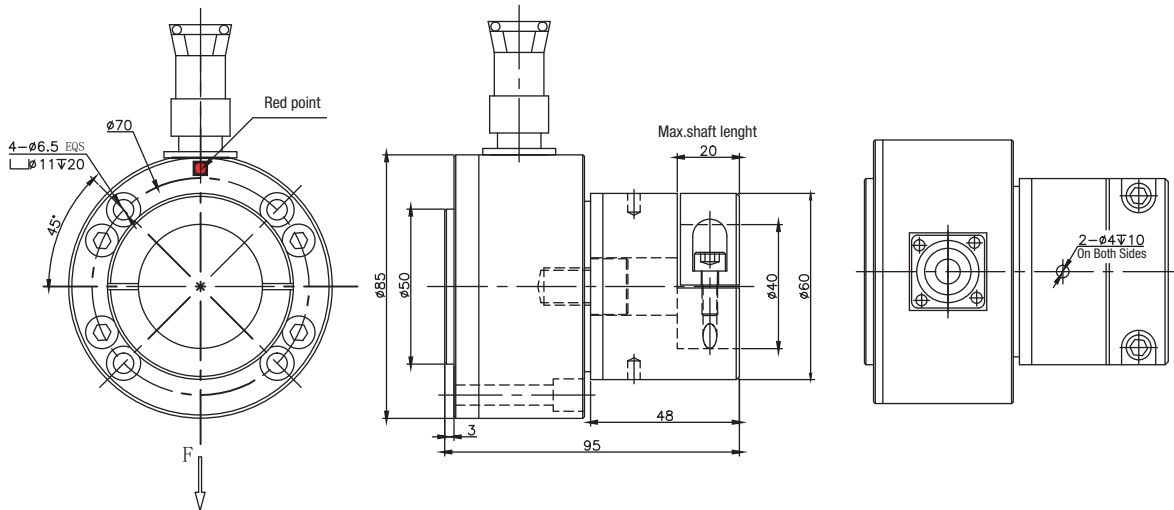
Downward Resultant



Upward Resultant



Dimensions (mm)



Color Codes

Function	Colors
+ input	red
+ output	black
- input	green
- output	white

Specifications are subject to change without notice. 01 -03 / 2024