

# Type SM40F Side Pressure Load Cell

#### Description

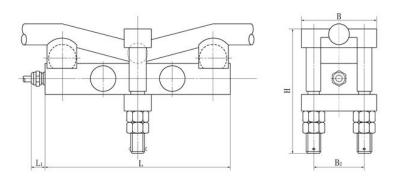
The sensor is made of alloy steel or stainless steel and features a unique side-pressure structure. Its working principle is that the steel wire rope is fixed on the sensor through U-shaped bolts (or pressure blocks + bolts) and slots at both ends. When the steel wire rope is under tension, the force acts on the sensor through the guide wheel. It is applicable to the measurement and control of wire rope tension and is mainly used on lifting equipment such as electric hoists, material hoists and wire rope direct cranes.

#### Characteristics:

high reliability, good interchangeability, easy to install, simple operation, easy to maintain



Dimensions (In mm. 1mm=0.03937 inches)

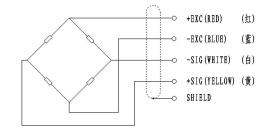




CAP. /SIZE	Diameter of steel wi	ге Н	L	L1	В	B 1	
t/mm							
1~2	ø6-14	117	160	18	76	45	
3~5	ø16-26	170	260	18	108	68	
10~30	ø24-36	175	272	18	112	72	
Ib/inches (conversion of above dimensions)							
2204.62~4409.25	ø2. 36-5. 51	46.06	62.99	7.09	29.92	17. 72	
6613.87~11023.11	ø6. 30-10. 24	66. 93	102.36	7. 09	42. 52	26. 77	
22046. 23~66138. 68	ø9. 45-14. 17	68. 90	107. 09	7.09	44.09	28. 35	

## Circuit Diagram:

Red: +input
Blue: -input
White: +output
Yellow: -output



### Specification:



Туре	Technical parameters		
Nominal load range	1 ~ 10t		
Power supply	10~12 VDC		
Zero balance	$1.0\pm\%$ of rated output		
Analog output	2.0±0.01mV/V		
Input resistance (RIc)	$400\pm20\Omega$ (ohms)		
Output resistance (Ro)	$350\pm5\Omega$ (ohms)		
Insulation resistance	≥5000 M Ω (Mege-Ohms)		
Class precision	0.05%FS		
Effect of temperature	0.02%FS/10°C		
Operating temperature	-40 ~ +85°C		
Safe Load Limit	200% FS		
Safety margin against yielding	300% FS		
Safety margin against breakage	500% FS		
Material material	High performance alloy steel or (chromium ratio>15% stainless steel)		
Protection type	IP67/IP68		