

CF.125 FLANGE LOAD CELLS



- Easy installation
- ✓ High reliability
- ✓ Strain gauge technology
- Measuring range from 500N to 2500N



A reliable web tension control may reduce web tears in order to increase productivity. CF flange load cells, used in a precise tension control system, are designed to carry out these delicate tasks.

They are installed at the end of a measuring roller to precisely detect the resultant of the forces generated by pulling of the material depending on the wrapping angle.

CF load cells have been designed with a compact design, to easily fit them in narrow spaces, to be installed very easily and to reach a very high reliability.

Operating principle: CF load cells use the strain gauge operating principle to guarantee a perfect detection of the web tension. Strain gauges resistors are mounted on a inner metal foil of a load cell and connected to each other in a "wheatstone bridge" able to convert a mechanical movement into an electrical signal, that must be amplified by suitable amplifiers.



TECHNICAL DRAWING





Selection model table

Code	Load N
CF.125.50	500
CF.125.100	1000
CF.125.175	1750
CF.125.250	2500
* 6	

* for other model contact our technical dpt.

CF.125.xx

CALCULATION



TECHNICAL DATA

Sensitivity	Normal	from 1,5mV/V to 2,0mV/V
	Supply	max 15V (max at full-scale value: 20 mV)
Total error-repeatability-histeresy-linearity		<0,05% full-scale value
Measuring principle		strain gauge full bridge
Strain gauge bridge resistance		350 Ω Ohm
Max overload		300% full-scale value
Temperature compensation		+10°C ÷ +50°C
Working temperature		+10°C ÷ +50°C
Option		4-20 mA output

*Data are subject to technical change without notice

