

# **CKF.105...** SHAFT THROUGH LOAD CELLS



- Compact design
- Easy installation
- ✓ High reliability
- ✓ Strain gauge technology
- ✓ High versatility
- Measuring range from 250N to 1000N

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

They are installed in shaft through applications 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.

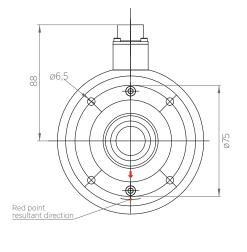
CK shaft through load cells have been designed with a compact design, to easily fit them in narrow spaces, to be installed very easily and to reach a very high reliability. Depending on models CK load cells are made with single or double foil.

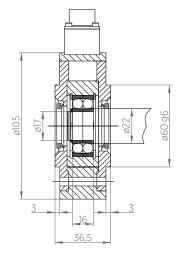
**Operating principle:** CK load cells use the strain gauge operating principle to guarantee a perfect detection of the web tension. Strain gauges resistors are mounted on a inner metal foil of a load cell and connected to each other in a "wheatstone bridge" able to convert a mechanical movement into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



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## **TECHNICAL DRAWING**

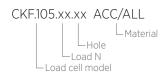




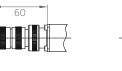
#### Selection model table

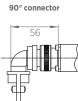
Code	Load N
CKF.105.25.17	250
CKF.105.50.17	500
CKF.105.100.17	1000
* 6 11 11	

for other model contact our technical dpt.

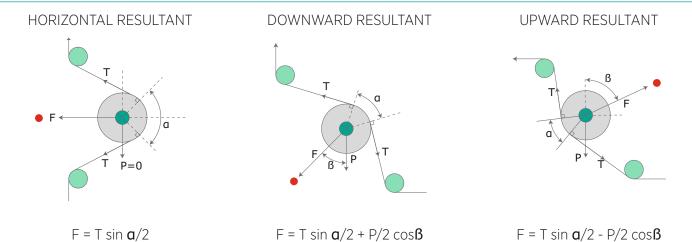


standard connector





# CALCULATION



### **TECHNICAL DATA**

Sensitivity	Normal from 1,5mV/V to 2,0m
	Supply 10V - max 1
Total error-repeatability-histeresy-linearity	< ± 0,05% end scale va
Measuring principle	strain gauge full bric
Strain gauge bridge resistance	350 <b>Ω</b> O
Max overload	30
Temperature range	0°C/+60
Option	4-20 mA out
Material	steel or alumini
*Data are subject to technical change without notice	

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