Datasheet 03010/EN - 09/16 v2





CK.175.... SHAFT THROUGH LOAD CELLS

- Compact design
- Easy installation
- ✓ High reliability
- ✓ Strain gauge technology
- ✓ High versatility
- Measuring range from 1000N to 3000N

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.

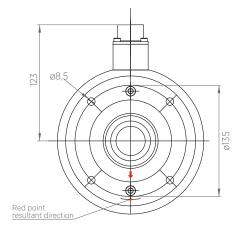
CK shaft through load cells have been designed with a compact design, to easily fit them in narrow spaces, to be installed very easily and to reach a very high reliability. Depending on models CK load cells are made with single or double foil.

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.



Re S.p.A. via Firenze 3 20060 Bussero (MI) Italy **T** +39 02 9524301 **F** +39 02 95038986 **E** info@re-spa.com Assistenza tecnica Technical support **T** +39 02 952430.300 **E** support@re-spa.com Assistenza commerciale Sales support **T** +39 02 952430.200 **E** sales@re-spa.com

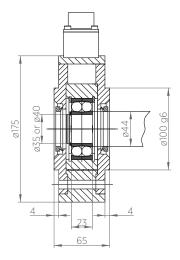
TECHNICAL DRAWING



90° connector

56

d



Selection model table

Code	Load N
CK.175.100.35	1000
CK.175.150.35	1500
CK.175.300.35	3000
CK.175.100.40	1000
CK.175.150.40	1500
CK.175.300.40	3000

* for other model contact our technical dpt.

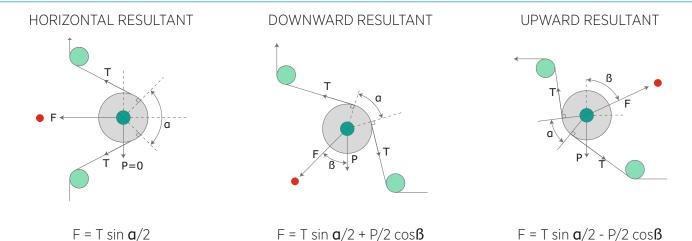


CALCULATION

standard connector

60

C



TECHNICAL DATA

Precision class		0.5%
Sensitivity	Normal Supply	from 1,5mV/V to 2,0mV/V 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		



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