CF.85

FLANGE LOAD CELLS

- Compact design
- Easy installation
- High reliability
- Strain gauge technology
- Measuring range from 50N to 2000N

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.

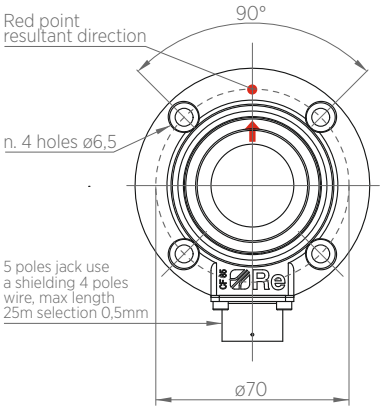
Re S.p.A.
via Firenze 3
20060 Bussero (MI) Italy

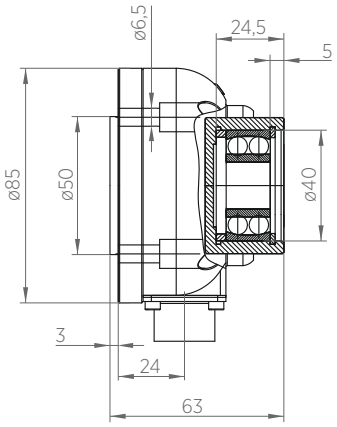
T +39 02 9524301
F +39 02 95038986
E *info@re-spa.com*

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





Selection model table

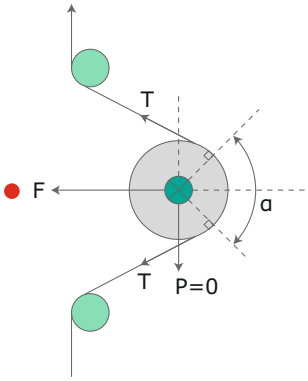
Code	Load N	bearing size
CF.85.5.40	50	40x17
CF.85.15.40	150	40x17
CF.85.25.40	250	40x17
CF.85.50.40	500	40x17
CF.85.100.40	1000	40x17
CF.85.200.40	2000	40x17

* for other model contact our technical dpt.

CF.85.xx.xx
- Load N
- Ball bearing size
- Load cell model

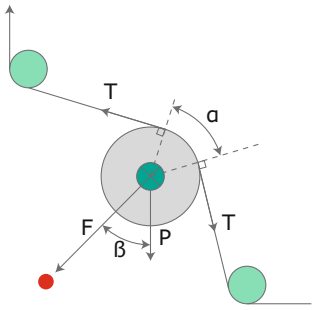
CALCULATION

HORIZONTAL RESULTANT



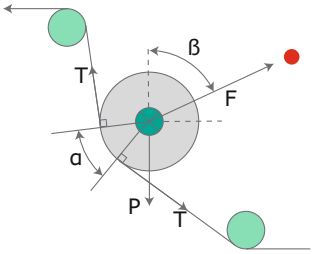
F = T sin α/2

DOWNWARD RESULTANT



F = T sin α/2 + P/2 cosß

UPWARD RESULTANT



F = T sin α/2 - P/2 cosß

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		350Ω 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

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*