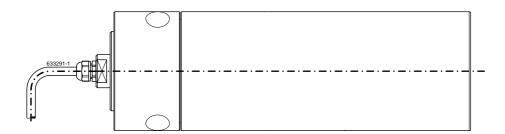
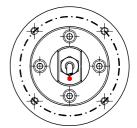
Cantilever Sensor Roll - CSW Precision web tension measurement online





The **Cantilever sensor roll** with integrated force measurement can be installed just like an unilateral installed standard web guide roll without major mechanical modifications.

The **Cantilever sensor roll** provides two functions at once:

- measurement of tension in the web
- · guiding and reserving the product web

NEW

The **Cantilever sensor roll** is checked and assembled ready for installation.

→ for the customer the complicated installation of electromechanical and mechanical components is reduced to a minimum.

Special Features:

- easy and one-sided flange mounting with tapped hole
- integrated Direction Adjuster
 offers the possibility for precise and stepless direction adjustment of measurement axis,
 while the sensor roll is completely installed in the machine
- precise, the measurement accuracy is independent of the force introduction point, i.e. the sensor is not affected by lever arm action
- easy-turning roller bearings with lifetime lubrication
- floating and fixed bearing construction with contactless labyrinth seal
- precision dynamic balancing as per VDI 2060
- robust, efficient overload protection by mechanical fixed stop
- · custom specific dimensions and rated measurement ranges available
- every coating and geometric structure of the roll surface available just like standard web guide rolls

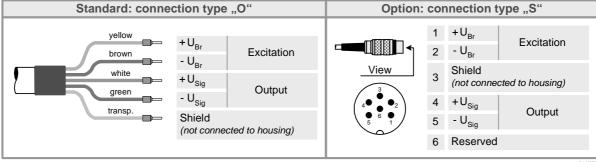
Technical Data

Type of sensor		Cantilever sensor roll - CSW
Rated measuring ranges available (F _N)	N	0 - 5 to 0 - 5000
- construction size BG1		Occasional in the description
- construction size BG2		Construction size is depending
- construction size BG3		on the customers application
Rated output	mV/V	1,5
Rated output tolerance	%	< ±0,2
Accuracy class		0,5
Excitation voltage max.	V	12
Reference excitation voltage	V	10
Input resistance	Ω	175 ± 3
Output resistance	Ω	175 ± 1
Isolation resistance	GΩ	> 10
Rated temperature range	°C	+5 to +50, Option: -10 to +70
Operational temperature range		
- sensor	°C	-10 to +70
- connection cable	°C	-30 to +80
Storage temperature range	°C	-30 to +70
Reference temperature	°C	+23
Temperature influence per 10 °C		
- on the zero point	% F _N	< ±0,1
- on the calibration	% F _N	< ±0,15
Creep after 30 minutes	% F _N	< ±0,05
Linear output signal up to	% F _N	approx. 130
Mech. overload protection takes effect at	% F _N	approx. 150
Overload protected ¹	% F _N	300 to 500, depending on nominal force
Ultimate side load	% F _N	200
Typ. deflection at nominal force	mm	0,07 ± 20%
Weight	g	depending on construction design
Connection cable		robust, flexible, shielded
		4 x 0,14mm ² , cable diameter 4,5mm, 5m long,
		open ends with splices, sheath special PVC
System of protection		IP 50

¹ radial incoming force without additional bending or tilting moment

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Connections



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Dimensions

