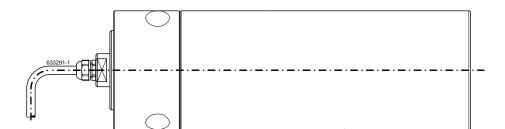
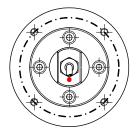
Cantilever Sensor Roll - CSW Precision web tension measurement online





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

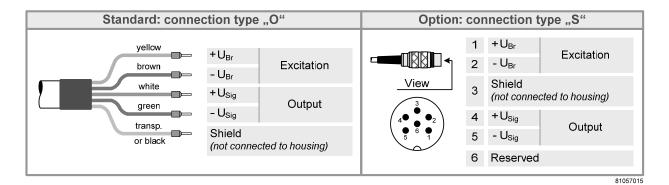
Type of sensor		Cantilever sensor roll - CSW	
Rated measuring ranges available (F _N)	N	0 - 50 to 0 - 5000	
- construction size BG1		Construction size is depending	
- construction size BG2		Construction size is depending on the customers application	
- construction size BG3		on the customers application	
Rated output	mV/V	1,5	
Rated output tolerance	%	< ±0,2	
Accuracy class		0,2	
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 0,38mm², cable diameter 5,6mm, 5m long	
		8 x 0,14mm², cable diameter 5,5mm, 5m long,	
		open ends with splices, sheath special PVC	
System of protection		IP 50	

81247088

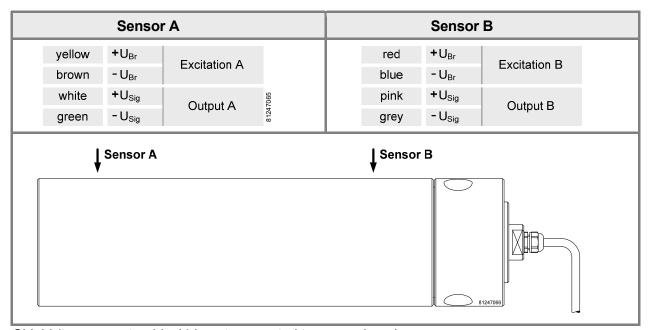
F_N: nominal force

¹ radial incoming force without additional bending or tilting moment

Connections - standard



Connections - separate measurement on both sides



Shield (transparent or black) is not connected to sensor housing.

Technical execution subject to change without prior notice. Reproduction - in whole, in part or in translation - is prohibited.

Dimensions

