



DATA SHEET

SR™ SEGMENTED TENSION ROLL TRANSDUCER

www.dfe.com controlling process tension

The Segmented Tension Roll transducer is a specialty idler roller that measures tension on multiple individual web strands in a slitting and rewinding environment, or at multiple points across the width of a single web in a converting or film winding application.

The Segmented Tension Roll can also be used for inspection of the tension profile on incoming roll stock. A converter can quickly check for substrate non-compliance on purchased rolled material by setting up a tension-profile monitoring station at Receiving or Incoming QC and rejecting defective material before it reaches processing.

The standard segmented roll transducer consists of a dead shaft having multiple idler rolls

mounted on it. Each roll segment has integral tension sensors in both ends. Electrical connectors are installed on the shaft, as a group, at one end of the unit. The standard roll is aluminum with a smooth plain finish. Other finishes are available by request. The shaft is mounted in a carrier frame and has one or more supports placed between rolls.

The SR™ transducer is available in two frame sizes; size 1 and size 2. The size 1 SR™ has a 3" diameter standard roll, and the size 2 SR™ has a 4" diameter standard roll. The maximum number of segments is limited to ten for the size 2 transducer and five for the size 1. The minimum number of segments is two. Maximum shaft length is 120".



BENEFITS/FEATURES:

- Measure tension on parallel web strands Or at multiple points across a wide web
- Choose length to fit machine or press frame
- 50:1 Effective load sensing range
- Load ratings from 12 - 400 lbs (55 - 1800N)

OPTIONS

- **Environmental Connector (EC).** Seals with mating cable electrical connector to protect against contact oxidation; especially useful in corrosive environments.
- **Extended Range Output (XR).** Extra sensitive at low tensions. Electronics must also have extended range.
- **Non-Lubricated Bearings (NLB).** No lubrication for bearings. For lowest drag torque. Not recommended by DFE and may void warranty.
- **Oiled Bearings (OB).** Oil instead of grease for lubrication. Not recommended by DFE and may void warranty.

ORDERING INFORMATION:

You may order from description or by specifying the code below by matching each labeled digit with one of the choices given. **Example: SR2-4-03-15-.25-200-OB,XR**

SR X - X - XX - XX - XXX - XXX - OPTIONS (Separated by commas)

SIZE	ROLL O.D.	NUMBER OF SEGMENTS ¹	ROLL LENGTH ¹	ROLL GAP	LOAD RATING	OPTIONS
1	3 (Std-Size 1 only)	Maximum Number: 5 for Size 1 10 for Size 2	Minimum Length: 6" for Size 1 7" for Size 2	Minimum/Std: 1/4" (.25)	12 lbs.	EC = Environmental Connector NLB = Non-Lubricated Bearings OB = Oiled Bearings SR = Steel Roll SSR = Stainless Steel Roll XR = Extended Range ² Z = Special
2	4 (Std-Size 2)				25 lbs.	
	5				50 lbs.	
	6				100 lbs.	
	OTHER (specify)				150 lbs. (Size 1 only) 200 lbs. (Size 2 only) 400 lbs. (Size 2 only)	

NOTES: 1. Maximum Shaft length = 120". 2. Indicator must have XRE option.



THE TENSION CONTROL SPECIALISTS

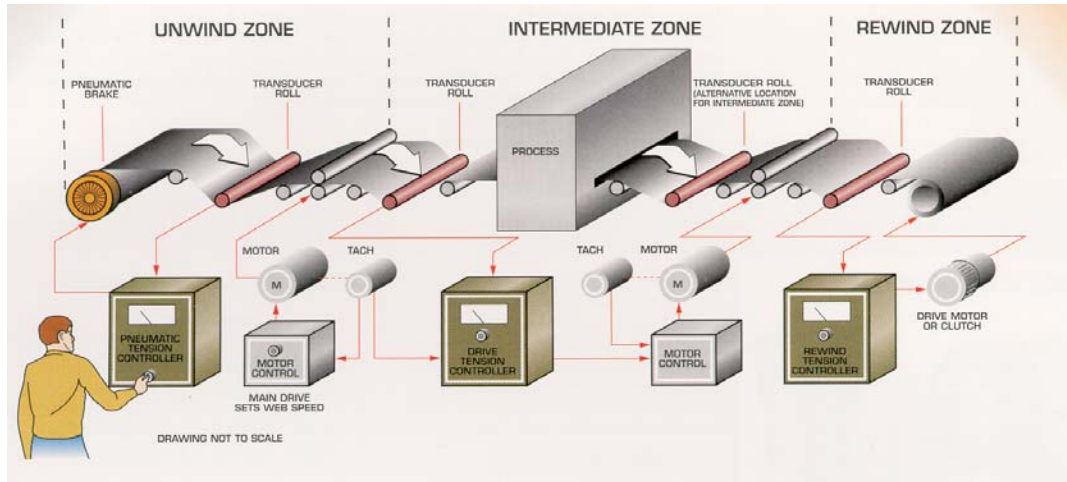
DOVER FLEXO ELECTRONICS, INC.

217 PICKERING ROAD, ROCHESTER, NH 03867 USA • 603-332-6150 • FAX 603-332-3758
E-Mail: info@dfec.com • Internet: www.dfec.com • ISO 9001 Certified



INFO REQUEST

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Stable tension control compensates for process deviations that cause web and roll defects. It's a fact. Dover Flexo tension measurement components or a closed loop control system can be integrated smoothly into your press' web path in only the tension zones that need them.

For fast information complete and **fax** this form to DFE at **(603) 332-3758**. Or call us at (603) 332-6150.

Name _____

Company _____

Address _____

City _____ State _____ Zip _____

Tel. _____ E-mail _____

We manufacture/process (material):

The project we're considering involves:

Send me your recent white paper on:
**"Improving Web-Processes with
Direct Tension-Sensing"**

Please send:

- Product Guide (14 page overview)
- DFE catalog (80 page 3-ring binder with complete product specs)
- CD ROM with product CAD library
- Tension Transducer data sheets
- Indicator/Transducer interface data sheets
- Tension Controller data sheets
- Pneumatic Brakes Catalog
- Application Note/Case History on: _____
- Data sheet on: _____
- Other: _____
- Have a Sales Rep call me



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