TRANSDUCER SPECIFICATION (use the Model F or TR Transducer Specifications for sizing Model F or Tension Roll® transducers)

A. INSTRUCTIONS. The load rating of the transducers is determined by the weight of the idler roll, wrap angle on the roll, tension in the web and the direction of the resultant force due to web tension. The drawings below illustrate different combinations of those factors. Record information requested below in terms B - E. Then use the formula below the appropriate drawing to determine load rating, or call Dover Flexo Electronics and we will determine rating for you.

B. TYPE OF WRAP. Cross out boxes that do not apply.

C. ANGLES AND IDLER WEIGHT

Record information in boxes. If you do not know wrap angle, be sure to give Angle “C”.

W = idler roll weight ................................................ pounds
B = wrap angle .................................................... degrees
F_T = force on idler roll due to web tension. F_T is in the same direction as the arrow on the transducer.
A = angle between FT and vertical axis ............ degrees
C = angle between entering and exiting web .... degrees
D. WEB CHARACTERISTICS
- Total Estimated Operating Tension, Max. _________________________ Min. _________________________ pounds (if known)
- Type of Web Material ___________________________________________ • Width: Max. _________________________ Min. _________________________ inches
- Basis Weight or Thickness ___________________________________________ • Max. Web Speed ______________ FPM

NOTE: If more than one material is used, give information for the two requiring the most and least tension.

E. TRANSDUCER CHARACTERISTICS
(1)
- Type: C □ RS □ RFA □ LT □ NW □ (Specify roll width ____________ )
- Bore Size _________________________ inches □ Mounting Style S □ FL □ PB □ TF □* □ PFL □* ( *Model C only)
- Load Rating * _________________________ pounds. (DFE will calculate if you wish) □ Connector Position (3) 3 □ 6 □ 9 □ 12 □ o’clock
  * multiply formula results by 2 for RFA and LT transducers (arrow on transducer points to 6 o’clock)

CONTROLLER SPECIFICATION
- Is the equipment for: Unwind □ Intermediate □ Rewind □ □ Tension Meter Scale: 0 to 1, 5, 10, 25, 50, 100, 250, 500, 1000 (Circle One)
- Full Roll Dia. _________________________ • Core Dia. _________________________ • Roll Wt. _________________________ pounds
- Machine Type (Printing Press, Laminator, Coater, etc.) _________________________
- Describe Drive, Brake, or Clutch to be controlled (include model number and maker if possible) _________________________
- □ DFE to supply brake/clutch? Yes □ No □
- Controller Model number _________________________ standard enclosure □ Panel only □ double enclosure □
- Interconnection Cable Length (double enclosure system only) _________________________ ft. • Type: (5) C-C □ C-N □ N-N □
- Options ______________________________________________________________________________________________________

INDICATOR SPECIFICATION
- Tension Meter Scale: 0 to 1, 5, 10, 25, 50, 100, 250, 500, 1000 (Circle One)
- Indicator Model number _________________________ standard enclosure □ Panel only □ double enclosure □
- Options ______________________________________________________________________________________________________

TRANSUDER CABLE SPECIFICATION
- Length (4) _________________________ ft. and _________________________ ft. • Type: (5) C-C □ C-N □ N-N □

NOTES: (1) Refer to Model F or TR data sheet or specification for sizing procedure. (2) Standard Model C bore sizes are: Size 0 = 7/8 inch, Size 2 = 1 1/4”. (3) 6 o’clock position is standard on Styles S and FL, rear is standard on PB. No optional positions on TF. (4) Standard cable pair consists of one 15 ft. and one 20 ft. cable. (5) C-C = connectors on both ends, N-C = connector one end, and N-N = no connectors.

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