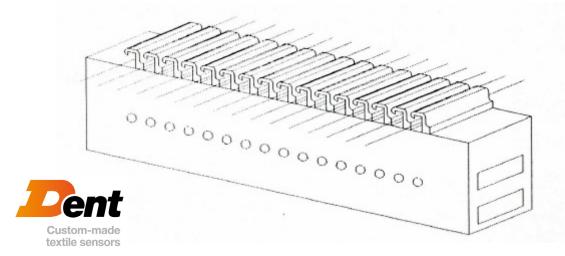
THE CREEL BAR SENSOR





An innovative range of cost effective multi-end sensors for creels and similar applications. Using advanced optical techniques the creel bar sensor is capable of extrernely reliable detection with advantages as follows: Fast Reaction Times.

- No contact with the yarn.
- Not affected by vibration.
- Not affected by yarn type or count.
- Not affected by spin finish, dirt, etc.

The standard system is capable of detecting a wide range of yam counts from crawl to maximum operating speeds with break reaction time selection to suit the process. The units are self-contained, are self threading and integrate with existing yam transport systems quite easily.

The basic form of the Creef Bar Sensor provides the following:

- Yarn sensing of 20 dtex or greater.
- Y am sensing at speeds from 3 m/min to greater than 1500 rn/min.
- Y am break reaction time as low as 10 ms.
- Individualbars can have 8, 16, 24 or 32 positions.
- 10, 12 or 15 mm yam spacing.
- Provides a machine stop signal in the event of a yam break.
- Indicates where the broken yam is positioned locally.

More advanced systems are available which are programmable. In such systems several Creel Bar Sensors are coupled together and connected to a Control Unit. Some of the features of these systems are:

- Counts and displays the number of nmning yarns.
- Provides Alarm signal in the event of number of running yarns becoming different to a pre-set number.
- Control Unit indicates location of a yarn break.
- Programmable system parameters for greater operating flexibility.

These features ensure that the creel is processing the correct number of ends at all times. If the creel has an incorrect number of ends at the start then the Control Unit will indicate this. From the information provided by the Control Unit it is possible to analyse the performance of the creel and highlight positions which are not functioning correctly.