

Double-eye yarn break sensor

Designed for critical products



Dual-sensor yarn break detector for fine denier and dark-colored yarns, ensures quality production

Optical sensors detect the presence of the yarn and identify yarn breaks during the spinning process. Yarn breaks which are detected as a phantom break effect production efficiency. Oerlikon Barmag's double-eye yarn break sensor has been specifically developed for critical yarn production such as dyed or fine denier yarns for more reliable yarn break detection compared to other products in the market.

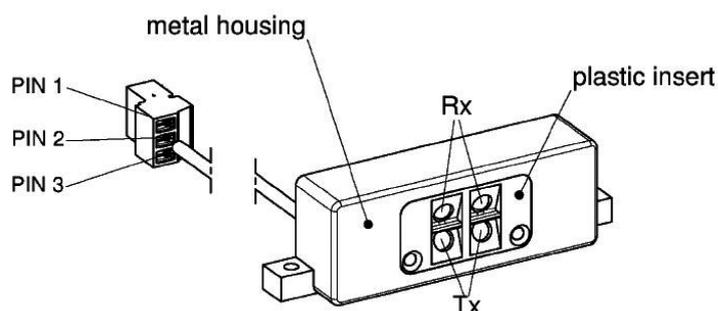
Based on the proven technique of reflective optical sensors, the double-eye design provides greater accuracy, eliminates misdetections and hence reduces significantly the machine downtime.

It has been tested with a yarn fineness from 8 dtex up to carpet yarn, it is installed outside of the yarn path and does not interfere with the automatic thread-up devices.

Your advantages

- Only real yarn breaks will be detected, no misdetections or "phantom breaks"
- Lower waste due to less faulty yarn break messages, including waste handling
- Works with a wide range of yarns
- Not influenced by dust, humidity or ambient light
- Breaks can be easily recognized in critical applications
- Specially developed for critical yarns such as dyed yarns and fine denier yarns

Steckerbelegung plug arrangement	
Pin pin	Funktion function
1	0V DC
2	24V DC
3	PNP out



Technical specifications

Working principle	Works at swinging yarn, reflection guard, with 2x5 mm optics, filters and current limiting
Yarn color and material	Filament yarn, staple fiber, elastic yarns and glass yarns
Titer	> = 8 dtex
Reaction time, after yarn start	500ms
Reaction time, after yarn break	300 ms
Power supply	24V DC +/-15%
Internal power loss	~30 mA, at output status 0
Output	1x PNP, output with current limitation (off at $\geq 50\text{mA}$), 24V high at yarn break, 0V at running yarn
Indication	2x red LED on sensor, LED on: yarn is running, sensor active, LED off: yarn break, sensor inactive
Mounting position	Any, photo sensor must not be mounted in direct external illumination
Housing	Metal, electronic parts sealed against spin-finish
Connection plug	1 x 3 pole plug

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