



BROKEN SHEAR PIN DETECTOR

FOR WICKET GATES

APPLICATIONS

- Fast identification of broken shear pin
- Protection of wicket gates by instant notification to a remote alarm panel
- Installed as a series of interconnected detectors

FEATURES

- Detectors installed inside shear pins having a central bore and connected in a series
- Electronic components and power supply housed in a protection box (optional)
- Uses a RIC-200 Relay Interface Controller and SPDT relay with power contact for remote notification (optional)

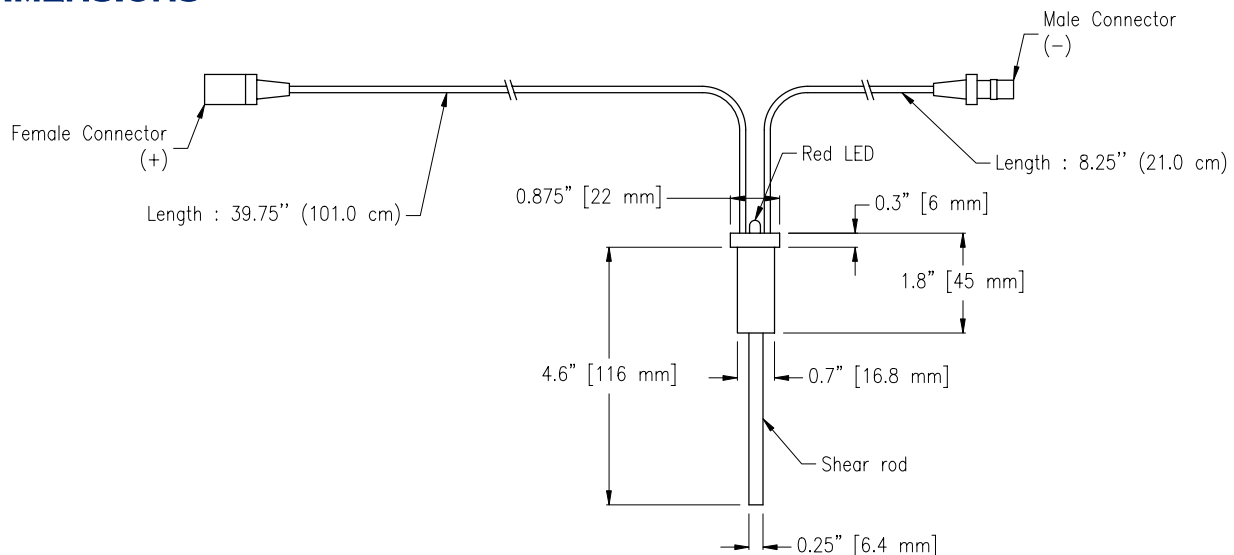
DESCRIPTION

The Broken Shear Pin Detector is a mechanical fuse that breaks when a wicket gate shears. It protects the wicket gate and the related mechanism against major damage when it is blocked by debris during closure.

Each detector fits into a shear pin and has a LED indicator on top, allowing fast location of a broken shear pin.

On average, a turbine has about 20 wicket gates, each protected by a shear pin and to be equipped with a detector.

DIMENSIONS





BROKEN SHEAR PIN DETECTOR GENERAL SPECIFICATIONS

Operation

- Internal resistance 1.2 Kohm, 0.5W
(in serial with LED)

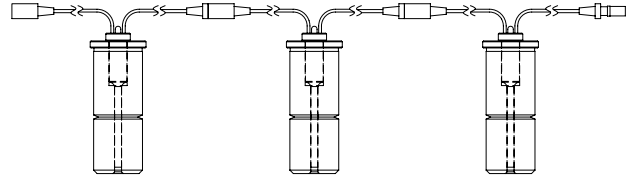
Environmental

- Temperature Range -5° to 60°C
(-23° to 140°F)

Connections

- Integral cables
 - Connectors 18 AWG flexible PVC
Single pin plug (male -),
Single socket receptacle
(female +)
 - Length Male: 21 cm (8.25 in.)
Female: 101 cm (39.75 in.)
- Extension cables (pair) 18 AWG flexible PVC
 - Connectors One end unterminated,
other single pin plug male
or single socket
receptacle female
 - Length 6,1 m (20 ft.)

DIAGRAM



091202F



VibroSystM's Broken Shear Pin Detector installed on hydroelectric machine.

VibroSystM reserves the right to change specifications to improve products without notification.

¹ Protected by patents around the world: US patents 7,064,559; 6,307,385; 6,552,667; 6,075,464; 5,990,807; 5,182,612; and other patents pending.

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