

Eltex UPG yarn break detector

16720/16730

The UPG is a small, general purpose, thread break detector. It operates on the piezoelectric principle, detecting the yarn movement. This working principle makes it suitable for all types of yarn and makes it insensitive to dust, dirt and humidity variations.

The detector has an optocoupler output suitable for PLC or other electronic control devices.

A LED (light emitting diode) indicates the yarn movement.

The ceramic sensor part can be used either as a closed eyelet or as an open bar.

Several detectors can be connected in parallel.



■ Function description

Sensing part Aluminium oxide ceramic, with a $\varnothing 3$ mm closed eyelet and a 7 mm wide bar.

Output Optocoupler, active when yarn is **not moving**.

Sensitivity setting The sensitivity can be adjusted with a potentiometer under the lid.

The output reflects the movement of the yarn. When the yarn is moving, the optocoupler is inactive. When the yarn is not moving, the optocoupler is active.

The LED is on when the yarn is moving.

The detector is supplied with cable and a 6/4 modular plug connector. Many thread detectors can be connected in parallel. The detector is protected against wrong polarity on power supply.

■ Application examples

- Winders
- Spinning machines
- Twisters
- Texturing machines
- Sewing machines
- Covering machines
- Yarn preparation machines
- Double/multiple picks on airjet weaving machines



■ Technical specifications

Housing in zinc metal

Power supply 15–30 V DC

Current consumption 20 mA

Output:

Max. switching current 10 mA

Max. voltage drop 2 V

Reaction time

150 ms

Cable length

16720

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0.5 m

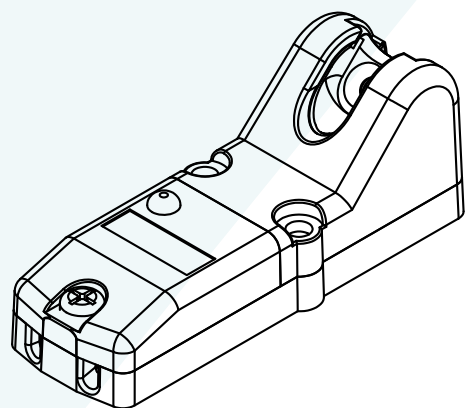
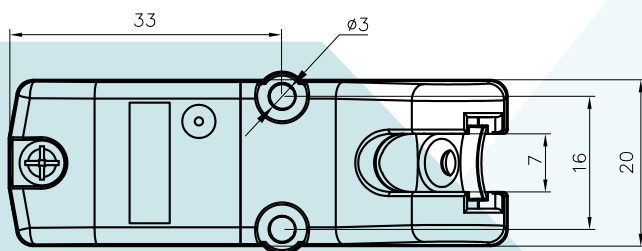
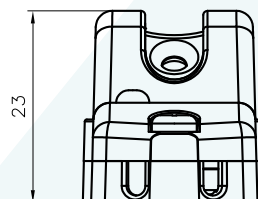
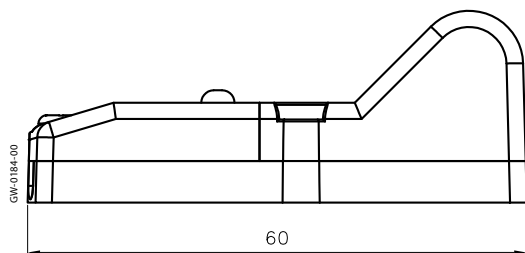
3.5 m

Cable connector

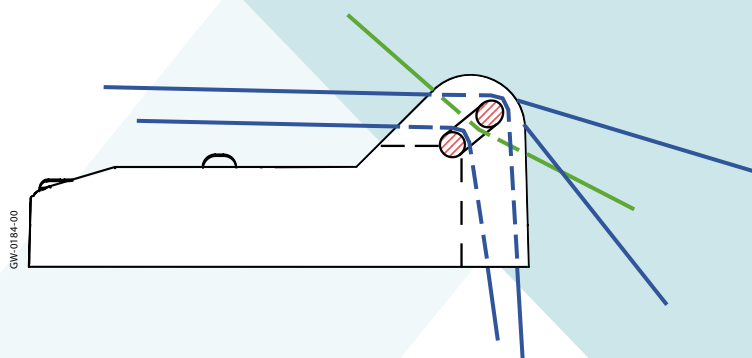
6/4 modular plug connector



■ Dimensions (mm)



■ Yarn direction possibilities



ELTEX
OF SWEDEN

Box 24, SE-283 21 OSBY, Sweden | Tel: +46 479 536300 | Fax: +46 479 536399 | Email: info@eltex.se | www.eltex.se

Eltex U.S., Inc.

13031 E. Wade Hampton Blvd.,
GREER, South Carolina, 29651, USA
Tel: +1 864-879-2131 | In US toll free: +1 800-421-1156
Fax: +1 864-879-3734
Email: sales@eltexus.com

Eltex Manufacturing Ltd.

Railway Road,
TEMPLEMORE, Co. Tipperary, Ireland
Tel: +353 504-314 33
Fax: +353 504-310 02
Email: info@eltex.ie

POLSA-ELTEX, S.L.

Zamora, 103 – entlo 3o,
ES-08018 BARCELONA, Spain
Tel: +34 93 309 00 17
Fax: +34 93 309 59 45
Email: polsa@infonegocio.com

Eltex China

China Textile Information Center
12, East Chang An Street, China
Beijing, 100742
Tel: +86 10 85229712
junxian@fabricschina.com.cn