Eltex G3s Yarn Break Sensor

INFO LEAFLET

G3s is a yarn break sensor that uses piezo-electric technology to detect yarn movement (not presence) of all types of yarn in many different applications.

G3s does not require a Central Control Unit, making it very cost effective.

G3s is designed to detect yarn breaks on creels and other textile machines with up to 120 yarns.

G3s is available with 8, 10 and 12 eyelets.

G3s sensors can be connected together. The sensors can be connected to a PLC or many other electronic devices like relays, I/O modules, etc.

When it is not possible to connect the sensors directly to the machine control (PLC), the Eltex Flexi-Hub can be used instead.

See Flexi-Hub info leaflet TH-0366.

ADVANTAGES

- Operates without a traditional Central Control Unit
- Cost effective
- Robust
- Works with a wide range of yarns
- Not influenced by dust, humidity or ambient light
- Simple and quick connection with modular connectors
- One command learning
- One command sensitivity adjustment
- LED indication of active eyelets and status of the sensitivity setting

Connection

Each sensor has two 6-pole 6P6C modular connectors. Using modular cables, several sensors can be connected together and / or connected to a PLC or relay.

Setting the sensitivity

The sensitivity has 8 levels. With one command all connected sensors are adjusted at the same time.

Learn command

When the number of yarns in operation is changed, the active / inactive status of the eyelets can easily be set accordingly by activating the learn command.

For sensors connected to a PLC, the sensitivity adjustment and the learning can be set from it. For sensors connected to a relay, external push buttons must be used.

The sensitivity and learned status will remain in the memory until new settings are made, even when the power is switched off.

Applications

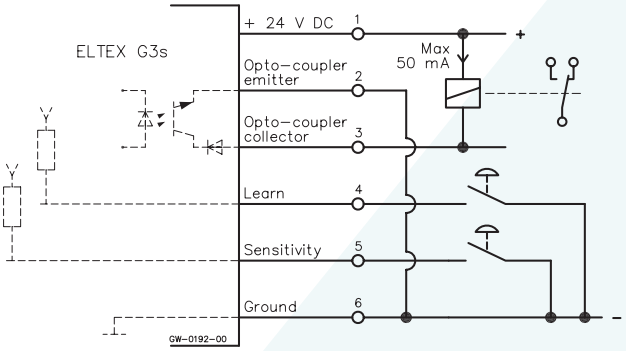
- Creels with up to 120 yarns
- Winding machines
- Twisting machines
- Braiding machines
- Texturizing machines
- Many others…

Technical specification

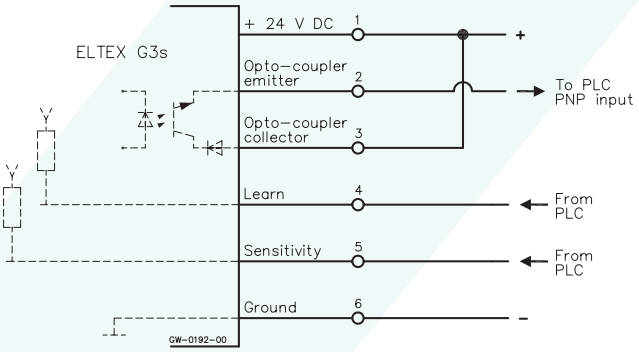
Power supply	17 - 30 V DC
Current consumption	Max 50 mA
Output function	Opto-coupler output *The opto-coupler is open when yarns are moving in all learned eyelet positions.* *The opto-coupler is closed when any of the learned eyelet positions do not have a yarn moving.*
Maximum load on output	50 mA
Sensors connected together	10 sensors max can be connected together. For machines with more yarns, we recommend the Eltex EYE-system.

Connection

Typical connection to a relay

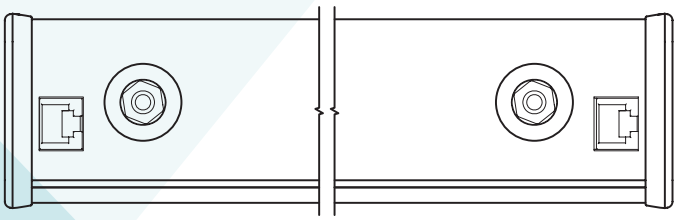


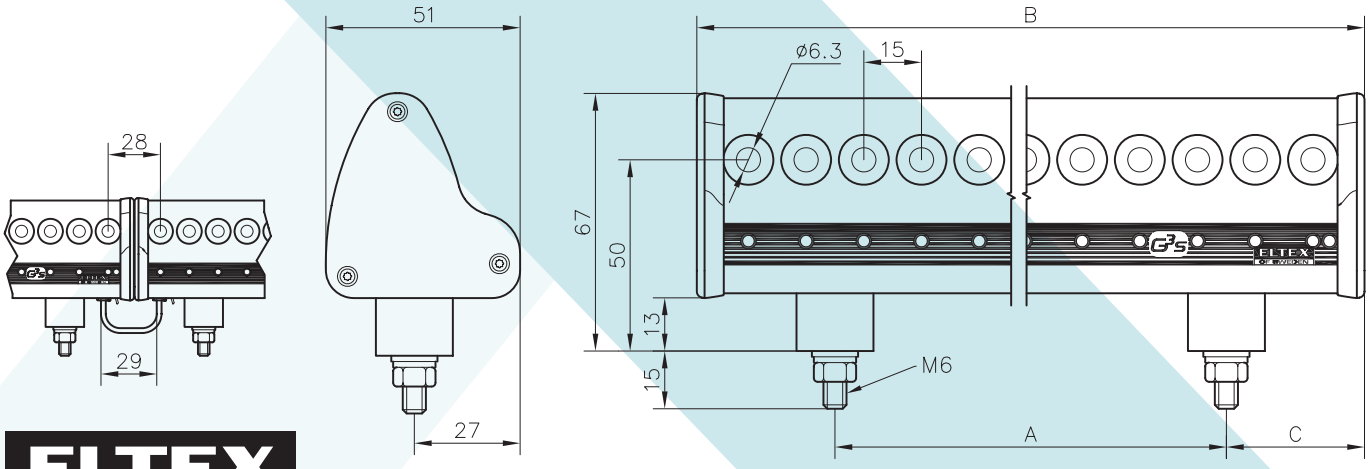
Typical connection to a PLC



Dimensions

	A	B	C
16680 8 eyelet	60	132	36
16610 10 eyelet	90	162	36
16620 12 eyelet	120	192	36





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