

Eltex Yarn Sensors for winders

16551 – 16559

The 16551 – 16559 yarn sensors are specifically designed for winders. They are robust, with a metal housing. The piezoelectric principle is used to detect 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 sensors have a touch button to switch them off. A dual colour LED indicates yarn movement or off state. Several yarn sensors can be connected in parallel.



■ Function description

The sensing eyelet is made of aluminum oxide ceramic.

The output reflects the movement of the yarn. When the yarn is moving, the output is inactive (floating), and the LED is green.

When the yarn is not moving, the output is active (low), and the LED is flashing green.

The LED is red when the sensor is in the off state.

At power-on, sensing is automatically on after a 3 second delay. Sensing can be switched off by the touch button. When switched off, the sensors will automatically resume sensing when yarn movement is detected continuously for seven seconds.

The sensors are protected against wrong polarity on the power supply.

The output is short circuit protected, and a fault will be indicated by red/green flashing light.



■ Technical specification

Housing in zinc metal

Printed circuit board has protective lacquer to protect against moisture/contamination.

Power supply 15–30 V DC
NB: The negative supply must be connected to earth ground to provide proper shielding.

Current consumption, max. 25 mA

Output NPN

Max. switching current 800 mA

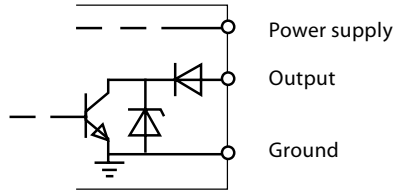
Max. voltage drop 2 V

■ Models

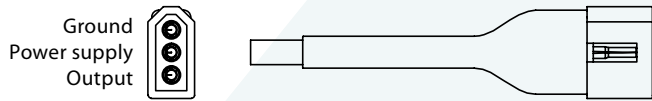
Item No	Eyelet	Cabel & Connectors	Reaction time	Notes parts
16551	Open	0,3 m + Molex	500 ms	
16552	Open	1 m + Molex	30 ms	Parts for Molex socket connector included
16553	Quick-thread	0,3 m + Molex	500 ms	
16554	Open	0,4 m + Faston	500 ms	
16555	Open	0,4 m + Faston	500 ms	Cable outlet at the base
16558	Open	2 m + Molex	500 ms	Piezo sensor also lacquered
16559	Open	5 m	500 ms	No connector

■ Dimensions

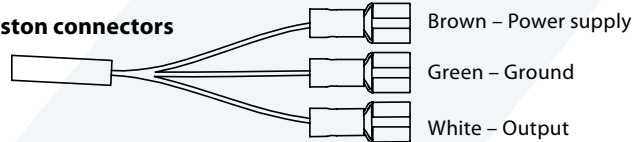
NPN output



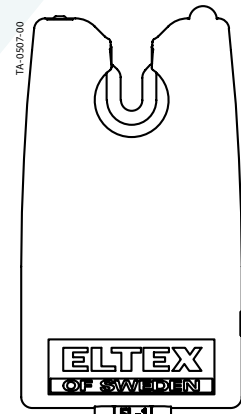
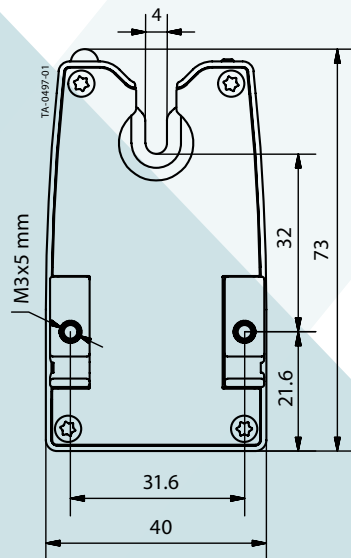
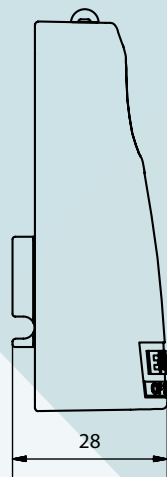
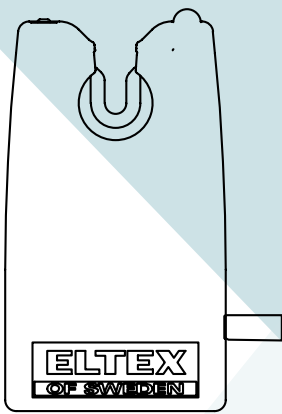
Molex connector



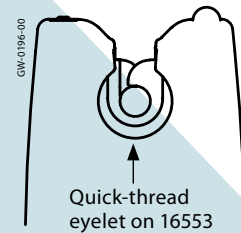
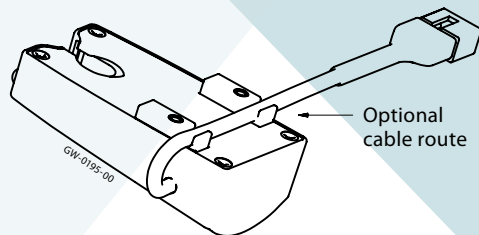
Faston connectors



Touch button Red/Green LED



Cable outlet on 16555



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