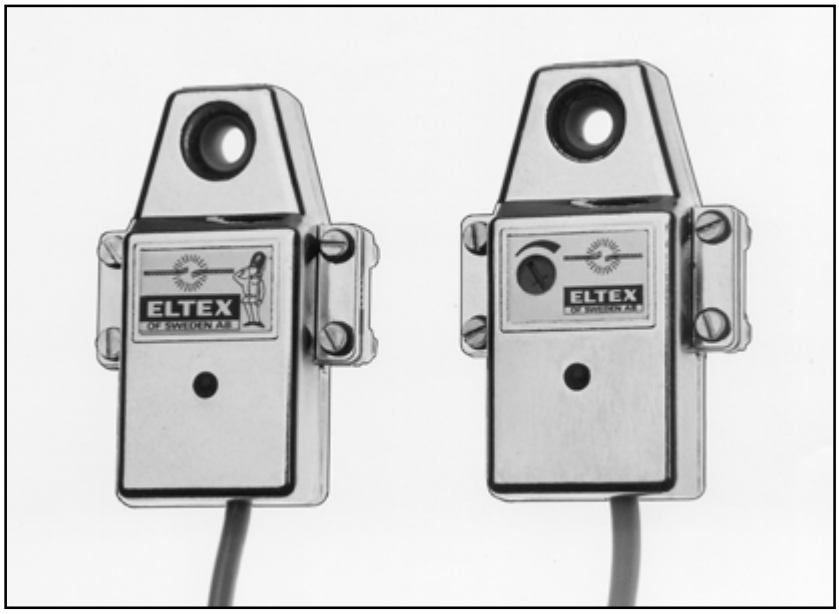
Eltex weft break sensor 16470

with logic current output



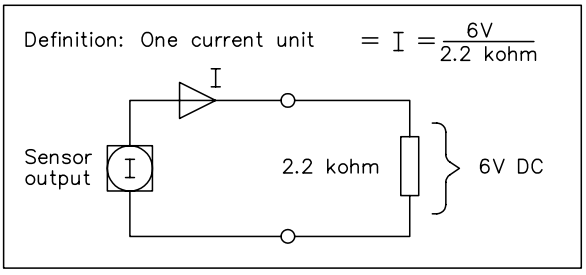
General description

Designed for use mainly on weaving machines. The 16470 weft break sensor is working on the piezoelectrical principle. The yarn movement is transferred into an electrical signal, which is amplified and evaluated within the sensor. The signal giver has a logic current output.

A green light emitting diode indicates when a yarn is moving.

Function and description

Eyelet diameter	see table
Power supply	24 V DC (16–28 V DC)
Current consumption	max 30 mA



Output: The sensor will send one current unit as output, if a yarn is moving in the eyelet.

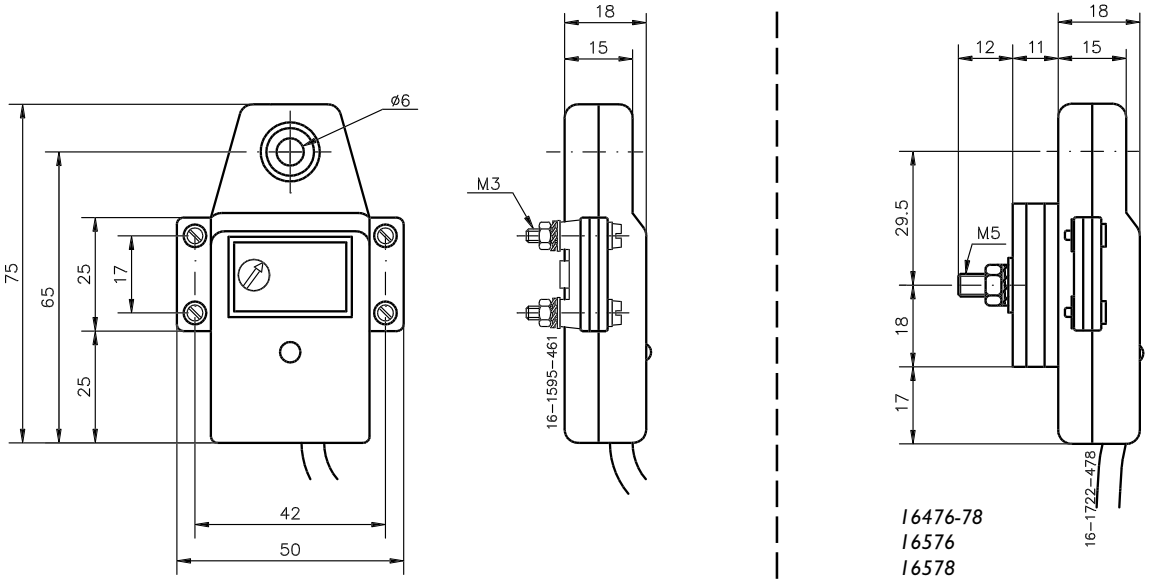
Sensitivity setting either through a DC voltage 0–6.5 V from the central control unit, or through a potentiometer on the sensor.

To set the sensitivity, turn the potentiometer clockwise to the end position (maximum sensitivity). Let the machine run and turn the potentiometer slowly anti-clockwise until the weft stop motion stops the machine with the weft yarn present. Then turn the potentiometer approx. 45° clockwise. If there are still false stops, increase the setting by another 20°.

The weft (yarn) movement is best detected, if the weft (yarn) deflection is 10–15° through the eyelet.

For monitoring more wefts, it is possible to connect two or more sensors of this type in parallel to one central control unit.

Dimensions (mm)



Connection

Colour	Function
Red	Power supply: 24 V DC.
Grey	Output: one current unit when the yarn is moving.
Blue	Sensitivity (Gain): DC voltage supplied by the central control unit. 0 V for minimum sensitivity, 6.5 V for maximum sensitivity. The blue wire is not used, if the weft sensor has a gain potentiometer.
Black	Ground connection.

Models

Art. no.	Eyelet	Cable	Potentiometer	Other characteristics
16470	Normal, ∅6 mm	0.75 m	No	
16471	Normal, ∅6 mm	0.50 m	No	The cover has no DC connection to ground.
16474	Interchangeable eyelet ∅6 mm	0.75 m	Yes	
16475	Normal, ∅6 mm	0.75 m	Yes	
16476	Normal, ∅6 mm	0.50 m	No	The cover has no DC connection to ground. 5-pole DIN male connector. Anti-vibration pad.
16477	Normal, ∅6 mm	5.50 m	No	The cover has no DC connection to ground. Anti-vibration pad.
16478	Normal, ∅6 mm	0.75 m	No	Anti-vibration pad.
16576	∅9 mm	1.50 m	No	Anti-vibration pad.
16578	∅9 mm	0.75 m	No	Anti-vibration pad.

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