

# **ELTEX weft sensor G<sup>3</sup>w**

## **with current logic output**



### **General Description**

The G<sup>3</sup>w weft break sensor operates on the piezoelectric principle. The yarn movement is transferred into an electric signal, which is amplified and evaluated within the sensor. The weft sensor has a current logic output and is manufactured with 4 or 8 eyelets.

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

The G<sup>3</sup>w weft sensor will detect single and double weft insertions, and also detect if too many wefts are inserted.

### **Features**

- Low, rounded housing.
- Short distance between pivot point and eyelet.
- High sensitivity to weft yarn movements.
- High immunity to compressed air and electrical interference.
- Allows a large yarn angle through the eyelets without touching the aluminium housing.
- Piezoelectric sensor with proven reliability.

### **Future possibilities**

- Flash memory for potential future upgrading.
- CAN bus interface*, which allows:
- Individual setting for each eyelet for optimised sensing performance.
  - Possibility of statistics.
  - Automatic gain setting.

### **Technical data and function**

Eyelet diameter	6.4 mm
Power supply	24 V DC $\pm$ 25%
Current consumption	< 125 mA
Connection	DB9 male
Gain/sensitivity setting	0–6.5 VDC external
Current logic signal	
no weft yarn moving	< 0.1 mA
1 weft yarn moving	2.73 mA $\pm$ 8%
2 weft yarns moving	5.46 mA $\pm$ 8%
3 or more weft yarns moving	8.19 mA $\pm$ 8%

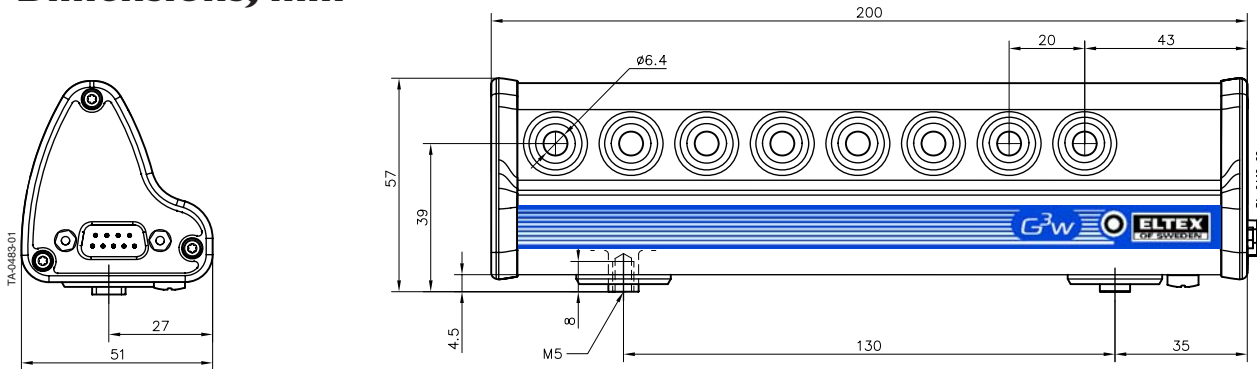
The movement of the weft yarn is best detected if the yarn angle is 10–15° through the eyelet.

### **Replacement of previous sensors**






The G<sup>3</sup>w weft sensor can replace E2016, E2060 and E2071 weft sensors. E2070, without gain potentiometer and used only for either single or double weft insertion, can also be replaced by the

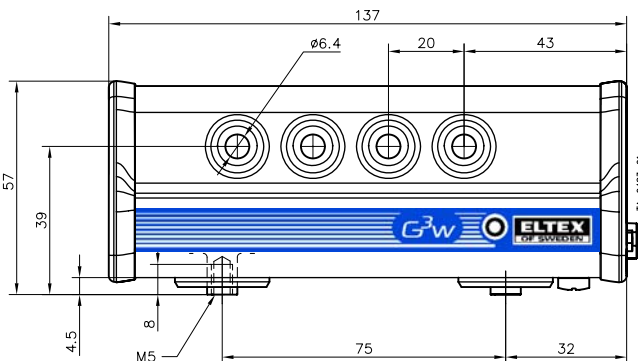
G3w. Eltex can supply adapter connectors and adapter cables. Please mention the part number to replace.

## Dimensions, mm

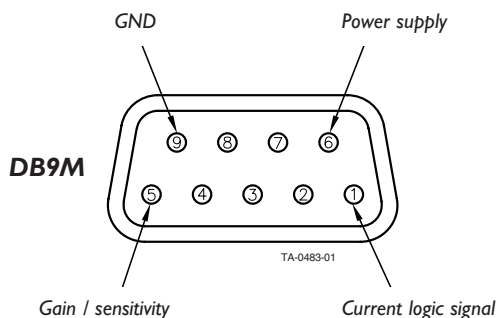


### Fitting details included

-  2x screw DIN 912 5x22
-  2x screw DIN 912 5x12
-  2x spacing tube 10 mm
-  2x plain washer BRB 5.3x12x1
-  2x tooth lock washer AZ 5.3



## Connection



Do not connect: 2-3-4-7-8

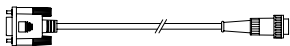

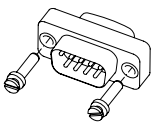
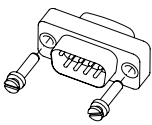
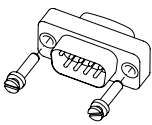
## Weft sensors

Part no.	Eyelets	Dropout time, ms
58520	4	5
58523	4	0.4
58525	4	1.2
58540	8	5
58543	8	0.4
58545	8	1.2

### Declaration of conformity according to the EMC Directive

The Eltex weft sensor G3w conforms to the standards EN 61000-6-4 (2001) and EN 61000-6-2 (2001)

## Weft sensor kits

Part no.	Content
300	58543 +  63560 cable
305	58523 +  63560 cable
320	58545 +  63562 adapter with slide lock posts
321	58540 +  63562 adapter with slide lock posts
325	58525 +  63562 adapter with slide lock posts



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