Eltex Multithread yarn sensor
SMG 156

SMG is a digital piezoelectrical yarn break sensor designed to fit the Eltex 15130 and 15761 central control units. It is available with 8 to 18 eyelets.

The signals in the eyelets are electronically scanned. Each eyelet can be individually switched on or off.

Red light emitting diodes indicate yarn faults.

■ Application examples

The SMG 156 can be used in most

applications where moving yarns or

wires should be monitored.

• Sectional warpers

• Spooling machines

• Yarn preparation machines

• Cable machines

■ Advantages

• Senses the yarn movement

• Accepts all yarn qualities

• Fast reaction time

• Anti check

• Minimum of yarn tension

• Insensitive to dirt

• Minimum of maintenance

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■ Technical features

The SMG 156 yarn sensors should be connected in parallel.

The central control unit 15130 monitors up to 100 yarn sensors (1800 eyelets).

The central control unit 15761 monitors up to 20 yarn sensors (360 eyelets).

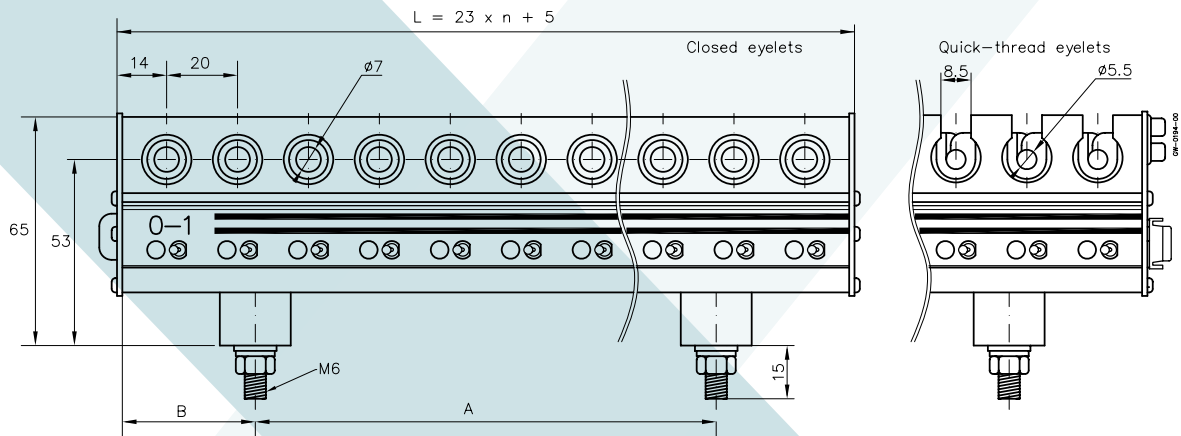|	
Eyelet diameter	7 mm (interchangeable eyelets diam 6 mm available)
Scanning speed	8 ms/eyelet
Reaction time	8–80 ms/eyelet (internally adjustable)
Sensitivity setting	DC voltage 0–6.5 V (normally from the central control unit)
Minimum yarn speed	approx. 30 m/min.
Current consumption	25 mA/yarn sensor
Power supply	15–33 V DC
Output	15 mA / 12 V DC active high at stop

The anti check function will indicate if an eyelet is switched off by mistake. Can be combined and mixed with any of the "single head" yarn sensors with latching function. Connection through a DB9 connector, or cable.

If there are more ends per row than 18, multiple yarn sensors can be connected together in order to make an extended yarn sensor unit. The yarn sensors will then be equipped with a DB9F socket in one end and a DB9M plug in the other end.
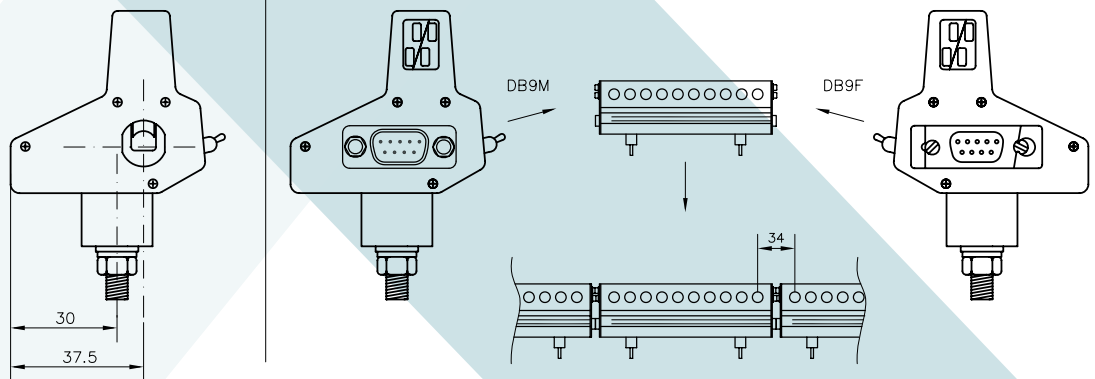
■ Eltex part

Item No	Eyelets	Connection
15890	8 closed	Screw terminal
15892	8 closed	DB9M + DB9F
15600	10 closed	Screw terminal
15602	10 closed	DB9M + DB9F
15620	12 closed	Screw terminal
15622	12 closed	DB9M + DB9F
15624	12 quick-thread	DB9M + DB9F
15640	14 closed	Screw terminal
15642	14 closed	DB9M + DB9F
15660	16 closed	Screw terminal
15662	16 closed	DB9M + DB9F
15664	16 quick-thread	DB9M + DB9F
15680	18 closed	Screw terminal
15682	18 closed	DB9M + DB9F
15684	18 quick-thread	DB9M + DB9F

■ Dimensions

$L = 23 \times n + 5$

Closed eyelets

Quick-thread eyelets

14 20 ø7 8.5 ø5.5

65 53 0–1 M6 15 B A

n = number of eyelets		
n	A	B
8	130	17.5
10	130	37.5
12	170	37.5
14	170	57.5
16	210	57.5
18	210	77.5

30 37.5

DB9M DB9F 34

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