

**LOEPFE**

MASTERS IN TEXTILE QUALITY CONTROL



WEFTMASTER®

## **KNOT DETECTOR KW-1R**

**SOLUTIONS FOR TOP QUALITY CONTROL**

**WEAVING SOLUTIONS**



## THE PIEZO-ELECTRICAL KNOT DETECTOR KW-1R MONITORS SIMPLY AND RELIABLY ALL KNOTS IN RUNNING YARN

### **Applications:**

When a knot passes the sensor, a predefined action can be released, such:

- stop activation at the textile machine
- activating a weft accumulator
- activating a cutter
- activating a counter

### **Advantages:**

- compact and robust construction
- quick reaction time
- simple adjustment
- suitable for finest yarns too
- no wear and tear
- no additional yarn tension
- no faulty impulses by fluff
- indicator lamp on amplifier box

yarn guide  
part no. 041577.010

Sensing head KW-1  
part no. 032930.010

additional yarn guide  
part no. 041240.010

fitting bracket  
part no. 033042.000



amplifier box KW-1R  
part no. 032928.000

## Amplifier Box KW-1R

The amplifier box is designed for the connection of 6 sensing heads. Additional heads can be connected in parallel. The evaluation is always routed over one common signal output.

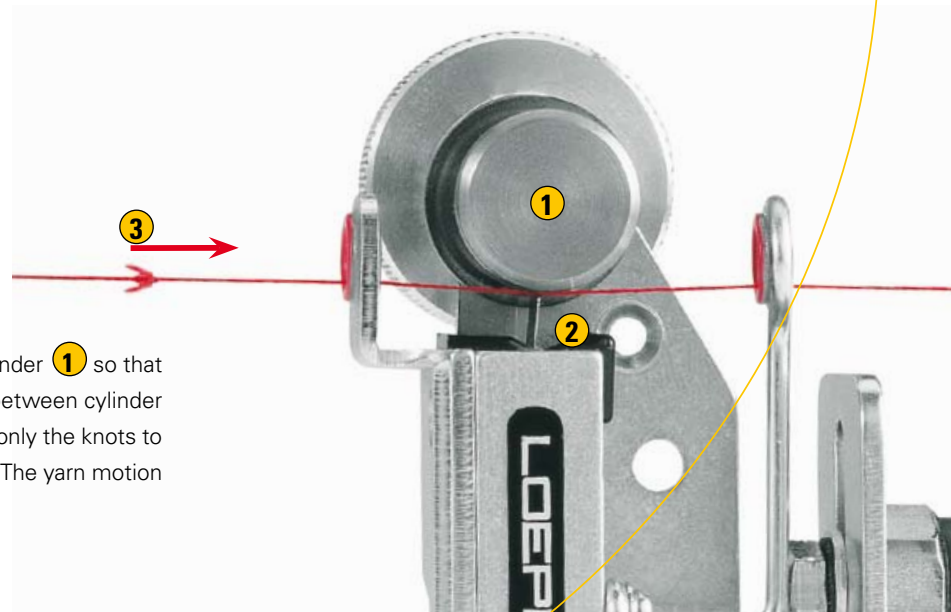
- at impulse operation short lighting up of reset button **A**
- at stop operation permanent lighting up of reset button **A**, until the fault correction is confirmed by the operating personnel

outer dimensions: 130 x 90 x 40 mm  
power supply: AC 10–28 V/DC 15–36 V, 150 mA  
signal output: 2 switchable contacts 250 V/5 A



## Fitting and Setting

The yarn must be deviated slightly at the setting cylinder **1** so that it does not touch the membrane **2**. The distance between cylinder and membrane must be selected in such a way that only the knots to be detected slightly touch or deflect the membrane. The yarn motion direction **3** must be maintained at all times.



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**Comprehensive Solutions:**

LOEPFE WeftMaster, the comprehensive product range for all weaving machine types, for:

- weft insertion monitoring
- fabric quality optimisation
- machine stop reductions
- productivity increase
- and for perfect selvage

**At highest Level:**

- weft stop motions
- weft thread brakes
- projectile brakes
- knot detectors
- bobbin feelers
- cutters for fusible fabrics
- thread path monitoring – even beyond the weaving sector
- custom-made special applications developed in close cooperation with machinery manufacturers (OEM)