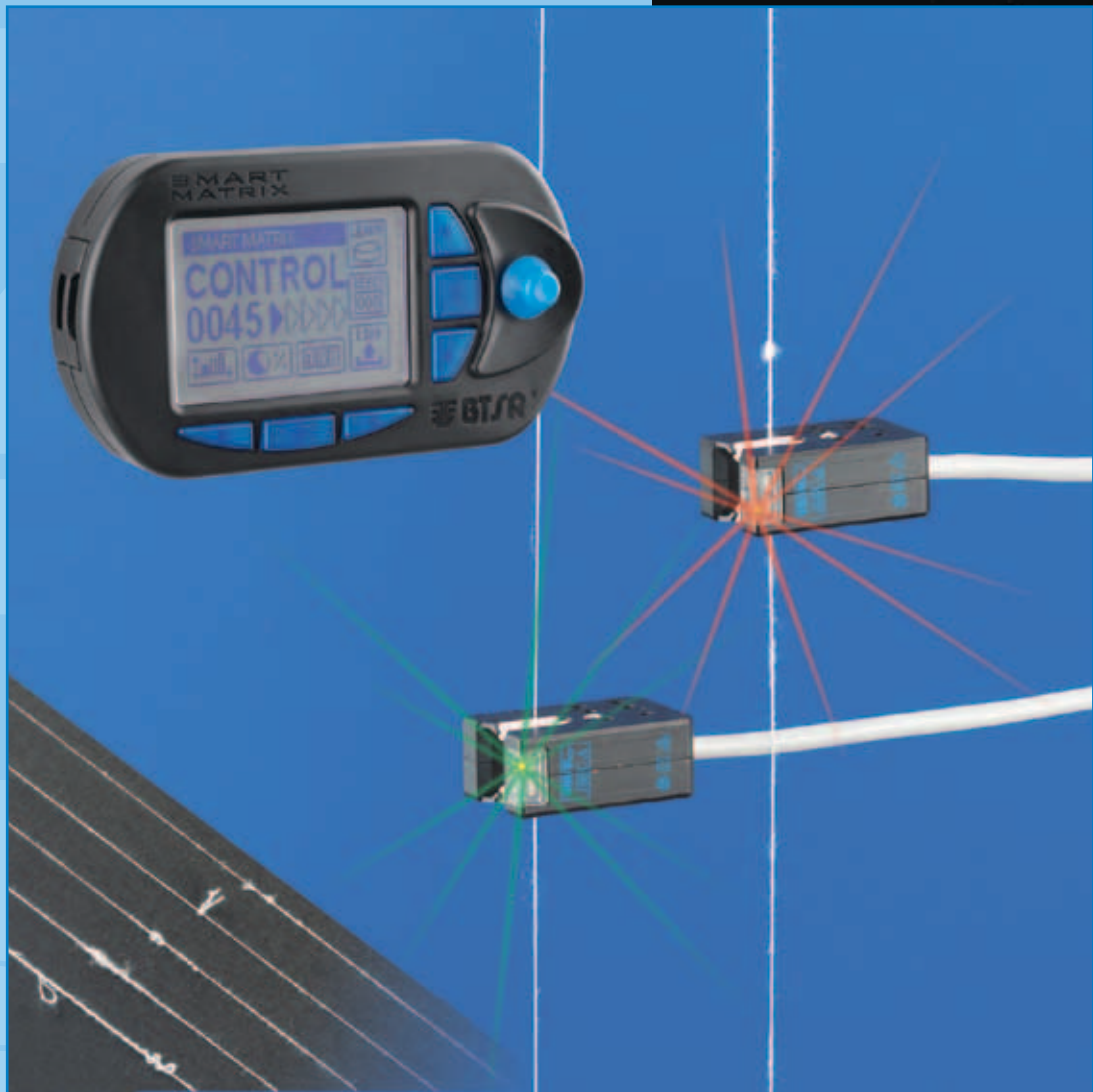# MATRIX CLEARER

Quality Control System

Quality control and ISSC sensor management systems for defects interception: neps, slups/tangles, added ply, missing ply and yarn missing

The "touch light" function allows for the rapid and precise use of the optic key in the different procedures: standardization, numbering, off-set etc...

Bright (red and green) LEDs are used for control condition and alarm signalling.

Possibility of using the sensors in different applications, due to the fact that different types of interchangeable yarn-guides can be used with ease.
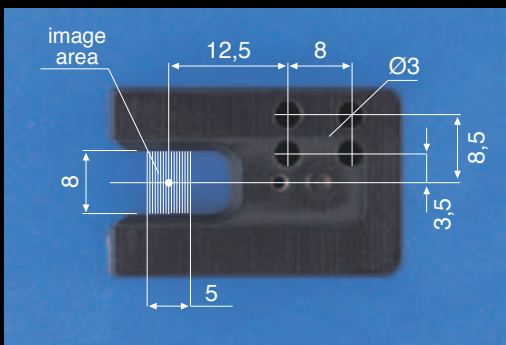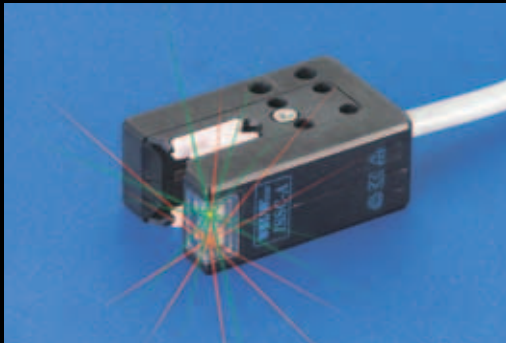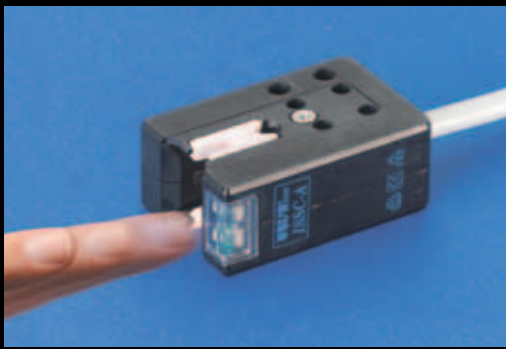
The reduced size facilitates installation for any kind of applications allowing the sensors a visual reading area of 5x8 mm.

Possibility of using the sensors in different applications with any type of yarn; when supported by either external MATRIX CLEARER or integrated control terminals, the sensors can be adapted to various needs.

ADVANCED YARN CLEARING TECHNOLOGY

Thanks to a sophisticated control technique, the ISSC device is an electronic sensor capable of detecting the image variation of yarn being checked, thus identifying the occurrence of anomalies as well as the quality level of the yarn itself. The image variation technique makes the ISSC device immune to environmental/yarn conditions, such as humidity, conductivity and machine vibrations. In addition, ISSC does not require any contact with the yarn being checked, thus allowing perfect monitoring of the yarn without in any way affecting the tension characteristics of the yarn itself.

The ISSC, which is dedicated to controlling (either in static mode: yarn at a standstill or dynamic mode: yarn running) the quality of the yarn, represents a unique solution of its kind. Thanks to an innovative, patented technique (Smart Scanning Sensor) if the ISSC is combined with the MATRIX CLEARER series control terminal, it does not require complex cabling and lengthy installation times and by using a multiconnector cable, up to 200 positions can be checked. ISSC is fully programmable and thus it can be easily adapted to quality control for any type of yarn/application. The main quality control functions are the identification of: - neps - neps per meter (nep/m) - burls and tangles (slubs) - added ply (yarn+) - missing ply (yarn-) - missing yarn (no yarn).

The ISSC is a parametric device; therefore you can freely set the title error percentages as well as the lengths for each of the above listed defects; this means that you can easily adapt the quality control to your actual needs. The ISSC devices are extremely easy to use, in that they are capable of accepting a large variety of accessories that make them suitable for the qualitative control of any type of yarn.

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