Press Release

17/6/2016

Elesa for safety: a value and a production requirement

ELESA components are designed to guarantee high safety standards

Safety in the workplace plays a central role and requires the implementation of all measures to minimize the risk of accidents at work. To achieve this goal, even the smallest component can significantly help in the construction of machines and equipment in which safety is effectively guaranteed.

Together with the quality, ergonomics and aesthetics of products, **ELESA** ranks safety amongst the top of its values, by designing components ideal for use in the most industrial sectors, even those highly automated.

Within the wide range of ELESA products, that counts more than 40,000 codes, many components are designed to meet specific regulations for use in regulated sectors; on the other hand, many components are designed and developed with particular attention to technical details on functionality and ergonomics, to ensure the operator maximum safety in the workplace.

ELESA components in compliance with safety regulations

A safety-certified product requires compliance with precise technical and design requirements, in addition to overcoming numerous tests. To have a product tested by an independent Body, represents a significant commitment for companies, but is also a guarantee of high quality for the operator.

Among the products in the catalogue, Elesa identifies components in compliance with different safety requirements, some of which are also certified.

The **CFSQ** and **CFSW. hinges with built-in safety switch** are excellent examples of “safety-certificated” products for the operator.

CFSQ hinge with built-in safety switch is equipped with one normally closed (NC) contact and one change-over normally open (NO) contact with positive opening in compliance with IEC EN 60947-5-1 standard.

CFSW. hinge with built-in safety multiple switch has four slow action electrical contacts which can be set in normally open (NO) or normally closed (NC) mode in production, in compliance with IEC EN 60947-5-1.

CFSQ and CFSW. hinges
with built-in safety switch

Press Box

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By using a redundant system, the CFSW hinge allows to have a system design up to SIL3 in compliance with IEC 62061, PLe in compliance with EN ISO 13849-1.

The quality and functionality of the two solutions is approved by UL (Underwriters Laboratories) the most authoritative certification body for the North American market.

CFSW. is also certified by IMQ (Italian Quality Mark Institute), the most prestigious certification institution for Italy.

ELESA components useful for the operator's protection in the workplace

Beyond what is prescribed in legislation, the working environment constitutes a number of potential risk factors, especially where the operator comes into contact with machinery and equipment on which protruding elements are installed, that may accidentally get caught with working clothes.

Elesa, thanks to this knowledge, designs and manufactures its components as real interfaces between the operator and the machine. Their design and their ergonomic shape are designed to facilitate and to make easier the interaction between the operator and the machine, to improve the functionality as well as minimizing the risk of accidents in the workplace, even in the absence of specific regulations. Compact shapes without protrusions and irregularities, are characteristics of Elesa components that contribute to increasing the safety levels of machinery and equipment on which they are installed.

ELESA safety products are designed in accordance with accident prevention rules. The **VD.FP+I+ST** safety handwheel is designed to prevent accidents at work. In case of push or accidental pressure when the machine is operating, the handwheel is disengaged and is in the rest position. Only by "Pulling" the handwheel parallel to the axis can the shaft operate: the two toothed elements inside the bushing fit into each other in order to couple the handwheel to the shaft. The handwheel returns automatically to its rest position when it is released after the operation.

The **IRS** safety fold-away handle, assembled on maneuvering elements such as handwheels and crank handles, is designed by Elesa for the safety of the operator. The special return mechanism "Fold-O-matic"® automatically folds the handle into the retracted position when the operation has been completed.

Products technical data sheets, along with drawings and tables with codes and dimensions, are available on our website www.elesa.com.

VD.FP+I+ST Safety handwheel

IRS.802 Safety fold-away handle

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