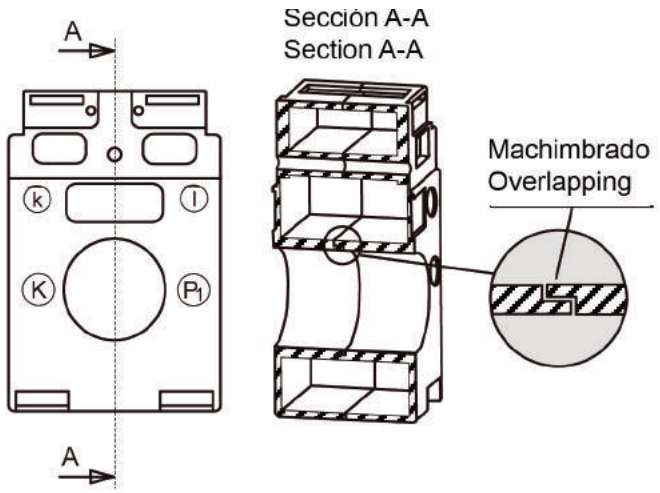
AST - Current transformers line

Compact design, versatility and greater safety are the distinctive features of the new AST-Line. In developing we have moreover retained our reliable CELSA secondary terminal.

Greater safety

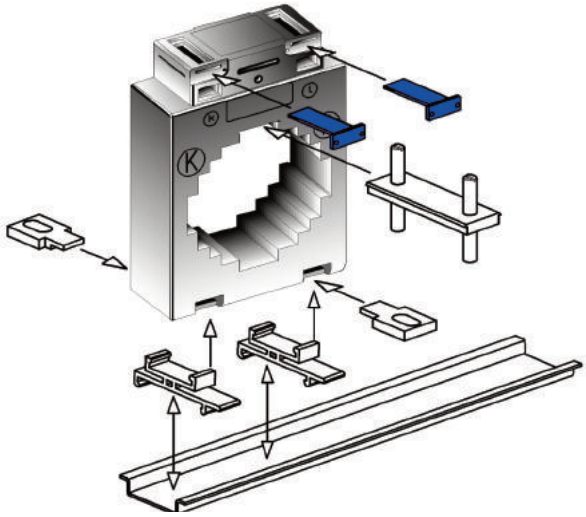
The joining point where the two halves of the housing meet inside the primary bar opening is crucial to safety. Quite in accordance with CELSA´s motto - safety is built into our products - the two halves of the housing are not aligned with a butt joint, instead they are made to overlap in the new AST-Line.



Versatility

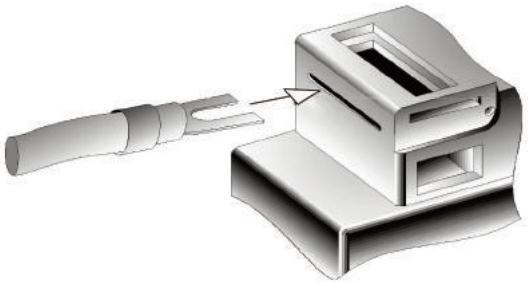
Current transformers are frequently secured with the help of a lug through which a clamping screw fits onto the primary bar. You must have noticed what a nuisance this lug can be, for instance when you want to install the CT behind fuse switch disconnectors, fuse trips or between bar overlaps and exits.

The new current transformer of the CELSA AST-Line have their own solution to this problem. The conventional fixing device has been designed with a form-locking guide so that - if necessary - it can simply be pulled out.



Secondary terminal openings.

The connection of secondary wire leads to their corresponding terminals is normally done by sliding them into the rectangular openings on the front or the back. If this way of connection is prohibited for instance due to blocking when mounted right behind a line of fuses the secondary wire leads equipped with clamps can also be introduced into the lateral slots for secondary terminal connection as shown



Secondary terminal

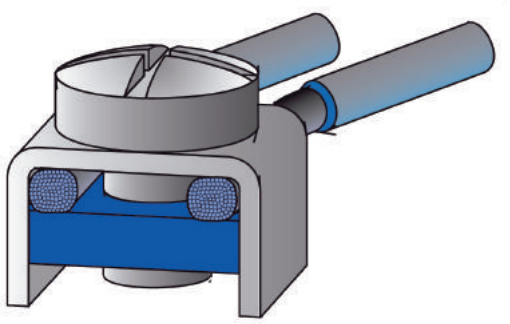
In this clamping system pressure is transmitted by means of a nut (pad) to the ends of the conductor (lift principle). The conductor is therefore loaded only under pressure and cannot be demaged by rotating components. When opened, there are two clamping spaces of 2.5mm x 4mm each in cross-section.

Thanks to our clamping system the ends of the conductors are clamped over a wide area which ensures lower contact resistance. Pressure forces of several hundret Newtons are reached. In this way conductors even with multiple, fine and extremely fine wires are so well compressed that no harmful gases can penetrate to cause corrosion. It therefore provides an extremely long-lasting connection even in aggressive indu-strial environment.

The plus-minus slot of the M5 (2 Nm) screws allows easy of handling. At the AST-Line both, screws and nuts are designed in such a way to prevent unintentional loosening.

Double secondary terminas for easy short-circuitl

The secondary terminals are made of brass with nickel as a double terminal construction. This double construction permits a very easy short circuit of the current transformer during operation in order to carry out work on the secondary circuit.



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