Press release

Essailec test blocks. The original!

Essailec® is especially designed to fit the electricity utilities requirements for safe and reliable testing. The test operations can be made without opening the panel door and without changing the wiring. It is approved by major utilities and successfully implemented for years in worldwide electricity production, transport and distribution networks. Essailec® allows to safely and easily perform test operations such as current and voltage measurement, monitoring, injection, repair or replacement of meters and protection relays installed in secondary circuits of current and voltage transformers or sensors.

New

ABB launches the Essailec® RJ45 dedicated for the use with the new generation of digital switchgears including sensors (current or voltage). Thanks to the combination of RJ45 connection and “Make before break” principle, testing switchgear’s protection relays have never been so easy. With the “Make before break” principle, the circuit is automatically disconnected with the insertion of the plug. The circuit closes automatically when the plug is removed.

Continuous operation Plug & play concept

Essailec® allows a simultaneous test of 1 to 4 circuits. Tests become easy thanks to the plug and play concept that automatically disconnect circuits. It is composed of a socket and a test plug. The socket is installed in the circuit and wired to the device to be tested during its installation or servicing (protection relay in switchboard or meters). The plug is connected to the test set and allows measurement or signal injection.

Socket design

The sockets are available in the following test methods to adapt to all testing needs:

- Socket with « Make before break » contact design, available in the current, voltage and RJ45 ranges.
- Socket with « Break before make » (opened) contact design, available in voltage range.
- Socket with « Closed » contact design, available in voltage range.

Safety and protection

Error free systems thanks to:

- Pin coding with up to 6 possible combinations that allocate test plug with its appropriate socket for circuit differentiation.
- Color coding that prevents from risks of mixing between various circuits : green for current circuits, grey/orange/blue for voltage circuits.

Operator’s safety is guarantied thanks to IP20 protection for the socket and IP40 with the protective lid. The protective lid is equipped with a sealing option to prevent unauthorized access.

Unitary traceability : the socket integrates a permanent tracking number engraved on insulating body.

Locking mechanism secures the plug on the socket. It’s eliminating unplugging risks.
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Easy to install

Multiple choice of mounting: with 5 possibilities to install Essailec® on front, or within the panel or on a plate. Various choices of wiring technologies are possible as Essailec® offers several connection types: ring tongue, screw clamp, quick-connect and RJ45, to allow wire terminations up to 10mm².

Premarked block in two directions to allow vertical or horizontal mounting:

- 1,2,3,4: transformers side
- 01, 02, 03, 04: equipment side

About ABB

ABB (ABBN: SIX Swiss Ex) is a pioneering technology leader in electrification products, robotics and motion, industrial automation and power grids, serving customers in utilities, industry and transport & infrastructure globally. Continuing more than a 125-year history of innovation, ABB today is writing the future of industrial digitalization and driving the Energy and Fourth Industrial Revolutions. ABB operates in more than 100 countries with about 135,000 employees. www.abb.com

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