Additional protection

An additional measure of protection against the hazards of direct contact is provided by the use of Residual Current Operating Device, which operate at 30 mA or less, and are referred to as RCDs of high sensitivity.

According to IEC 60364-4-41, additional protection by means of high sensitivity RCDs (IΔn ≤ 30 mA) must be provided for circuits supplying socket-outlets with a rated current ≤ 20 A in all locations and for circuits supplying mobile equipment with a rated current ≤ 32 A for use outdoors.

This additional protection is required in certain countries for circuits supplying socket-outlets rated up to 32 A and even higher if the location is wet and/or temporary (such as work sites for instance).

RCDs of high sensitivity (IΔn = 30mA) provide both protection against indirect contact hazards and the additional protection against the dangers of direct contact. It guarantees a complete protection!