

SmartDetect
Option for Quality Control

QUALITY ASSURANCE

SmartDetect

Description







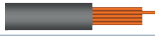



SmartDetect is a highly innovative quality monitoring option for Schleuniger CrimpCenters. The sensor-controlled system monitors the complete stripping process in real time and detects contact between the stripping blade and the conductor. This means that the production quality can be further improved without loss of the prior high performance.

The full integration into the CrimpCenters' user interface «Easy» ensures a clear and easy-to-understand data management of the wire-specific parameters. Even during setup, SmartDetect supports the operator by showing whether or not the used setup will lead to a touch of the strands.

The proven, make-ready-optimized principle of the quick-changeable cutter blocks for the changeover of the stripping blades is fully retained when using SmartDetect. The electronic components of the system are completely embedded, so that they are visible from the outside only for the experienced eye. This allows e.g. the blade change can be carried out in a preferred working position outside the machine and during mounting of the sharp blades there is no need to take care of filigree and sensitive measuring wires.

Ability

The following error can be prevented.

Picture	Description	Detection Rate
	Cut-off strands	
	Cut strands	
	Scratched strands	
	Coated strands	
	Splayed strands	

Function

During the stripping process, contact between the stripping blade and the conductor material is detected, and any notches or scratches on the conductor material, which may be caused are signaled.

The monitoring is carried out in three zones corresponding to the normal stripping process:

- Zone 1: Contact during cutting the isolation is reported
- Zone 2: Contact during stripping movement is reported
- Zone 3: Contact after removing isolation residue from the wire is reported (Recut-Function deactivated)

The system determines in which zone the contact took place. These results are compared with the set parameters. Produced wires that do not meet the set quality requirements are treated and rejected as known from other Schleuniger quality monitoring systems.

