

for Use with fully automatic Production Lines

**Features**

- Resistance welding is a well proven welding process to copper wires
- Fully automated welding process
- Minimal maintenance costs
- Wear localised to electrode
- Quick change applicator
- Automatic weld head with servo motor
- High frequency inverter
- Water cooled welding area
- Standard crimper for insulation crimp
- Terminal feeding by carrier strip
- Digital monitoring of welding parameters such as welding current, welding time and weld deformation
- Terminal detection via distance measurement
- Wire Size range from 0.22 mm<sup>2</sup> up to 0.75 mm<sup>2</sup>

**Compatible**

**Tyco Electronics Products**

MQS Crimp Terminal similar to Terminal PN 928999

**Technische Daten**

**Electrical Supply**

CEE  
3 x 400 V, 32 A

**Compressed Air Supply**

600 kPa

**Dimensions**

Module  
W x H x L [mm]  
approx. 320 x 750 x 800

Control Cabinet  
W x H x L [mm]  
approx. 600 x 2100 x 800

Cooling Unit  
W x H x L [mm]  
approx. 450 x 400 x 630



The welding module is designed for use on a standard leadmaker such as a Gamma 333 or an Alpha 433.

An interchangeable applicator allows the processing of various terminals.

The resistance welding module consists of a basic frame with

- motor driven welding head and
- interchangeable applicator of compact design.

A separate control cabinet contains

- the PLC
- the weld current control unit and
- the weld monitoring unit which monitors the welding process.

The electrode cooling device is externally mounted.

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The design of the newly developed contact shows a flat welding area and a normal insulation crimp zone.

Therefore the applicator closes the insulation crimp simultaneously in the welding process.

The welding parameters are controlled by a weld monitoring unit.

The welding process is a form of impact-welding.

The contact is typically fed with a carrier strip similar to other products.

During the process the stripped strands bundle will be preformed to a rectangular shape.

Consequently the resistance welding module can be used with standard cable processing units.