Q1240

quality tools

komax

EN

Q1240

The low-wear, visual quality monitoring system Q1240 monitors the quality of the stripping fully automatically and ensures traceability. The tool is integrated in the machine process and visually captures every single strand during ongoing production. Thanks to integration in the machine software, quality data can easily be traced at any time from one source. Defective wires are cut up and separated.

Constantly monitored quality
- Fully automatic strip quality monitoring
- Visual capture during ongoing production
- Expanded inspection area to monitor large terminals and seals
- Integrated “Cut up bad part” function

Integrated in the machine software
- Reliable, controllable quality parameters
- Traceability of the quality data from one source
- Visualization of statistics, image storage and data interface

THE RELIABLE STRIP QUALITY MONITORING
ENSURES CONSTANT, TRACEABLE QUALITY

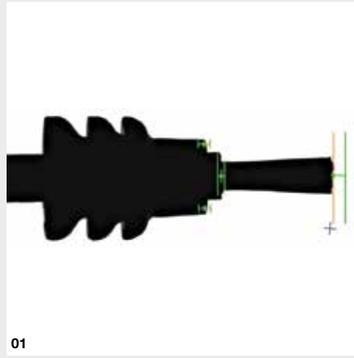
Strip quality monitoring and optional seal monitoring

The Q1240 controls the stripping process during operation to ensure correct strip lengths and to check for pulled or splayed strands and missing terminals.

The optional seal monitoring controls the positioning and can detect twisted and pierced seals. Defective articles are cut up, separated and destroyed.

Reliable quality from one source

The machine integration enables the quality to be controlled and documented. The machine operator is thus relieved, reducing the error rate. The data transferred by the manufacturing execution system enables a direct target/actual comparison. Potential challenges can be detected early and the process can be swiftly optimized. The stored values and images guarantee complete traceability of the product quality.



01

01
Evaluation of the tolerance ranges for pulled strands, strip length and seal position of an article.

02
The process-integrated strip quality monitoring Q1240 visually captures every single conductor end during ongoing production.

Process overview

Cut Strip	Pulled strands	
	Strip check	
	Strip length	
	Wire splay	
	Missing strand (partial)	
	Partial strip	
	Insulation burrs	
Seal insertion	Seal position	
	Seal presence	
	Insulation in front of seal	
	Seal orientation	
	Pierced seal	
Crimp	Missing terminals	

Technical Data

Conductor cross sections	0.13 – 6 mm² (AWG 26 – AWG 10)
Full or half strip	max. 18 mm (0.71 in)
Resolution	1280 × 1024 (1.3 MB pixels)
Inspection Window	24 × 16 mm (0.9 × 0.6 in)
Dimensions (W × H × D)	75 × 544 × 332 mm (3.0 × 21.4 × 13.1 in)
Cycle time / reduction in piece output	> 200 mm: max. 1 % 60 to 200 mm: up to 4 %
Communication	USB 3.0
Machine types	Alpha 530, 550 / Omega 740, 750 / Zeta 630, 640, 650

The Q1240 is also available as an integrated variant in the S1441 seal module.

02

Komax – leading the field now and in the future

As a pioneer and market leader in automated wire processing, Komax provides its customers with innovative solutions. Komax manufactures series and customer-specific machinery, catering to every degree of automation and customization. Its range of quality tools, test systems, and intelligent software and networking solutions complete the portfolio, and ensure safe, flexible, and efficient production.
Komax is a globally active Swiss company with highly qualified employees and development and production facilities on several continents. It provides local support to customers worldwide through its unique sales and service network and offers services that help them get the most out of their investments.

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Subject to change