

SPS-MAGAZIN

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UNOFFICIAL ENGLISH TRANSLATION

The original article was published in German in SPS-MAGAZIN, a trade magazine published in Germany. Prepared for CRETEC. The German original remains the reference.

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Built to last

The original states a module size of "0.5 mm (2 mil)" and a smallest Data Matrix code of 0.7 × 0.7 mm. The first two units are inconsistent; both are retained as printed and have not been silently corrected. Historical technical statements remain unchanged. Original publisher artwork, logos and advertisements are retained in their original language.

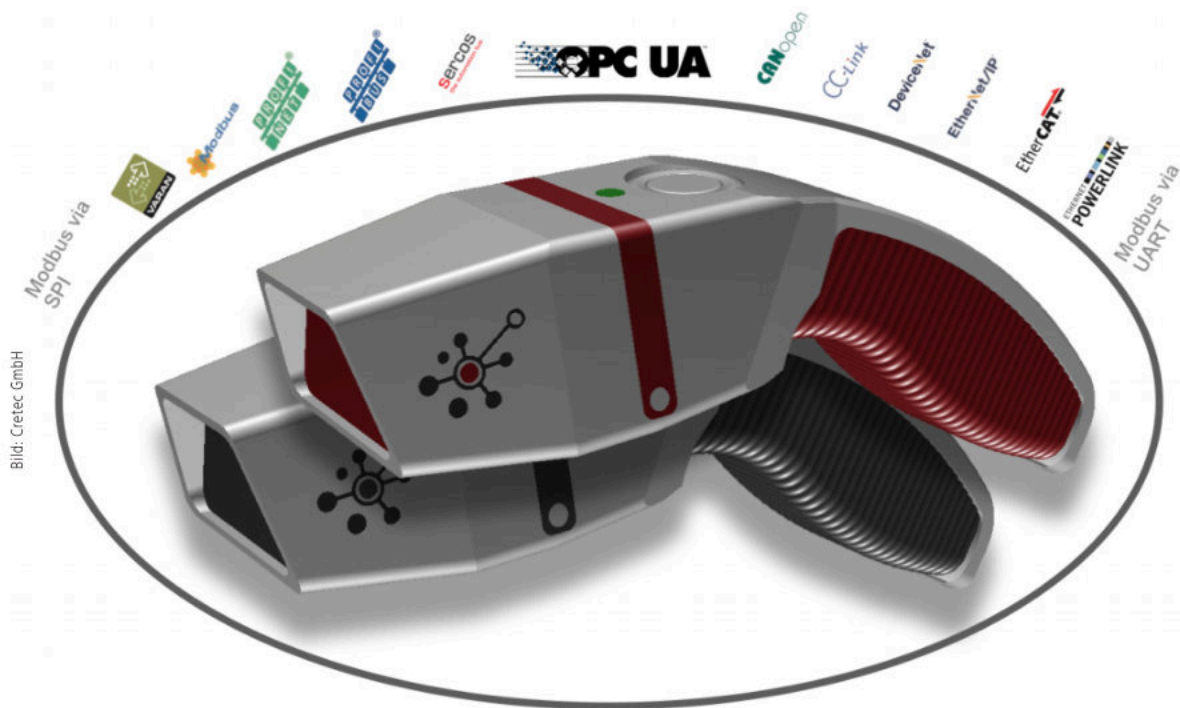


Bild: Cretec GmbH

Built to last

Conventional handheld scanners are made of plastic and do not withstand industrial production conditions for long. Service lives of only six to twelve months are not uncommon. When ID readers fail, the main costs generally arise from production delays and stoppages rather than the devices themselves. By contrast, the ID Phaser handheld scanner is machined from solid aerospace-grade aluminium. It therefore withstands even the harshest production conditions.

Its reading performance also compares favourably with the highest-quality competing products. The electronics were redesigned from board level, and the algorithms are implemented in an ASIC. Self-optimising algorithms eliminate complicated software configuration. Alongside a standard version optimised for label codes, a DPM version is available for directly marked and small codes. A special illumination/optics combination with adaptive attachments was developed for this purpose. Even the smallest directly marked codes can be read quickly and reliably. Module sizes of 0.5 mm (2 mil) can be read, meaning that the smallest readable Data Matrix code measures 0.7 × 0.7 mm. The new reading field is bounded by four laser lines around its perimeter, allowing users to select individual codes precisely.

Most handheld ID systems communicate via RS232

or USB. In production, however, they must be connected to current controllers through suitable bus couplers or input cards. The ID Phaser, by contrast, supports all communication standards (Profibus, Profinet, EtherCAT, OPC UA, RS232, USB, etc.) directly from the device, without additional hardware. The DPM version is powered by 5 V to 24 V or PoE. Its ergonomic design reduces the handheld scanner's weight to 286 g, making it considerably lighter than many plastic DPM readers. The centre of gravity lies exactly in the middle, enabling entirely new working ergonomics. Its shape also reduces strain on the user's wrist.

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Source note: "0.5 mm (2 mil)" is inconsistent; retained as printed.

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