

Industry Sector Industry Automation Division

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Compact and flexible code reading system for industrial applications

The new Simatic MV420 stationary 1D/2D code reading system from the Siemens Industry Automation Division is characterized by high reading reliability, a compact design, and a wide range of communications and connection options. The compact device with high IP67 degree of protection can read both standard high-contrast codes as well as DPM (direct parts marking) codes even under difficult ambient conditions. Typical uses include product tracking and process control applications in the automotive, packaging, pharmaceuticals, tobacco, cosmetics, electronics, and food and beverage industries. In addition, the new reading system is also suitable for shipment tracking in logistics and distribution.

The Simatic MV420 1D/2D code reading system with 640 x 480 pixels resolution has an integrated M12 lens and supports operating distances from 1 to 22.5 centimeters. The operating distance is adjustable using an integrated focus. In addition to its integrated lighting, an external lighting unit may also be connected. The Simatic MV420 processes up to 40 codes per second. Using multi-code reading, several codes and even different code types can be decoded from a single image. This is advantageous, for example, when bulk-reading several stacked items.

A special feature is the "auto trigger" image recording mode. This enables the code reader to record images continuously at maximum speed while simultaneously evaluating them. The reader recognizes the relevant codes in a sequence of any duration without requiring external trigger signals, such as those from a light barrier. This feature is particularly suitable for slow-moving objects and in applications where precise triggering using a light barrier would be difficult.

The Simatic MV420 features integrated Profinet IO, Industrial Ethernet, and RS232 interfaces. A communications module is used to connect to Profibus DP, which also allows mixed operation with

RFID (radio frequency identification) systems. It is controlled by the same function block in the Step7 program.

The Simatic MV420 code reading system is parameterized and commissioned using a built-in Web server. To do this, a PC or programming device with Internet Explorer is used. No additional software is required. For most applications, the parameters are automatically preset. The Web-based user interface provides extensive operator control and monitoring functions, even in evaluation mode. In addition, HMI (human-machine interface) devices are also suitable for displaying the image information. Application-specific user interfaces are created using visualization software such as Simatic WinCC or WinCC flexible. Numerous diagnostics, logging, and evaluation functions are also available. For example, time stamps, error patterns, and result values can be archived in database systems to create trend analyses or statistics.

Additional information is available on the Internet at: www.siemens.com/simatic-sensors/mv

A photo accompanies this press release. You can find this photo on the Internet at: www.siemens.com/ad-picture/2201

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