

// Quickly in register

sincon_star Single Register Control



Be inspired. Move forward.

// Quickly in Register



1-pixel color camera

INNOVATIVE REGISTER CONTROL

The register control system `sincon_star` is designed for the control of a single print unit or tool station.

As an option an Insetter control for the control to a pre-printed web is available. The register control system by BST eltromat guarantees a high degree of automation. Set-up times and waste are reduced considerably, resulting in an increase in the productivity of the printing press.

Challenge us – we can help you to meet your customers' expectations.

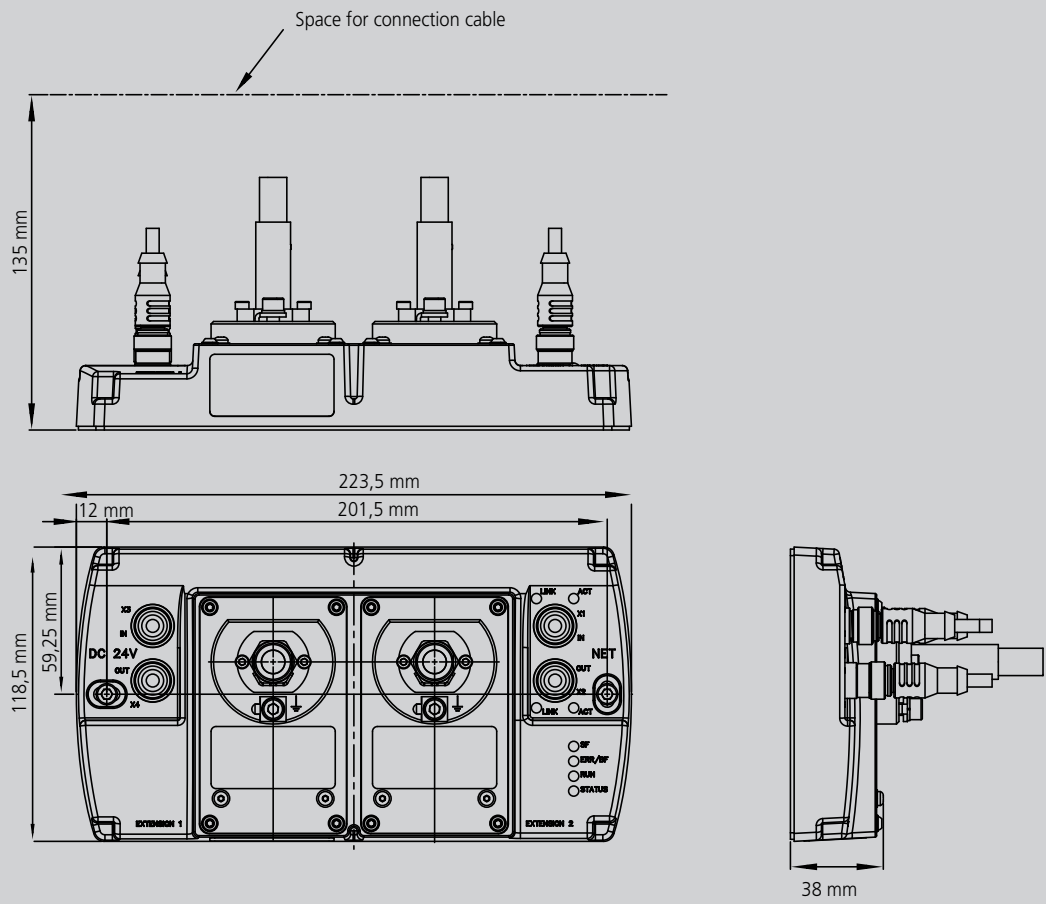
- Quick to print
- Minimising waste
- Ensuring high quality print projects
- Increasing customer satisfaction
- High degree of automation
- Optimising processes
- Increasing productivity
- Reducing costs

BST eltromat – stands for exquisite detection of all print marks

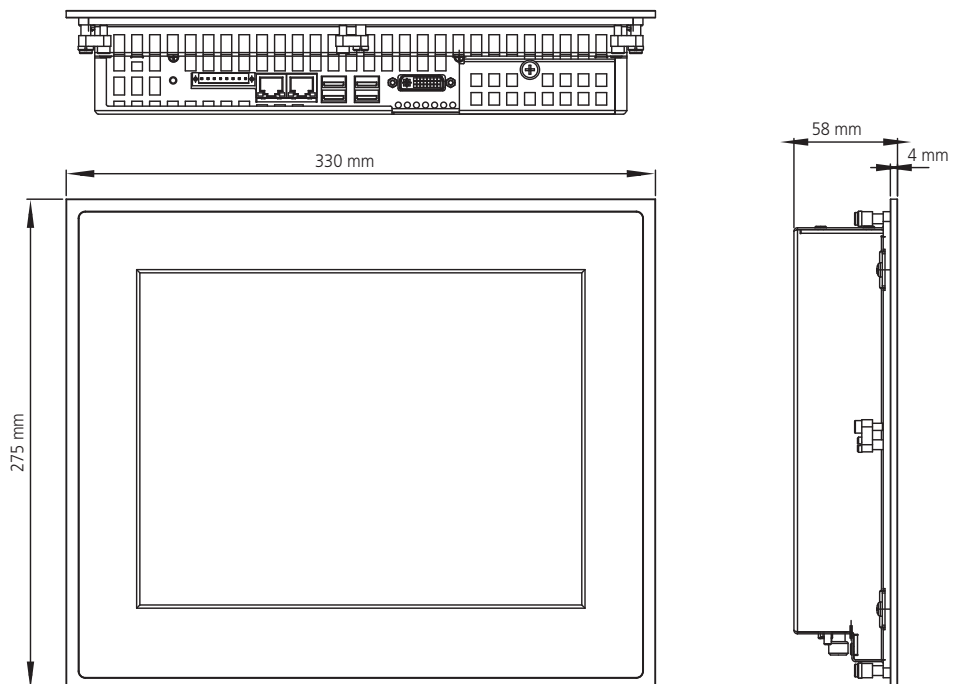
The 1-pixel color camera from BST eltromat also allows the detection of marks with a very low contrast. This means that cold seal and lacquer can be controlled in the web-web comparison. The detected marks are displayed on the operator monitor as a live color image.

The modern user interface with touch monitor offers individual and efficient handling of the register control system. The clearly designed HMI provides a high degree of operating comfort for the printer.

REGISTER MARK SENSOR



PANEL PC

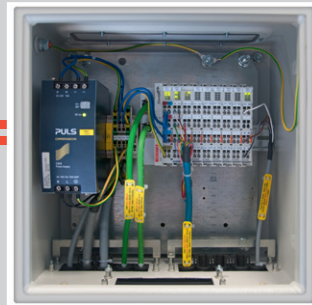


CABLE LENGTHS

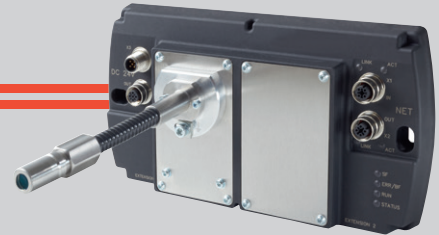
12" Panel PC



I/O Modules & Housing



Mark Sensor



- | | | | | | |
|--------------------------|---------------------|------|--------------------------|---------------------|------|
| <input type="checkbox"/> | Art. No. 9954010100 | 10 m | <input type="checkbox"/> | Art. No. 9954010111 | 10 m |
| <input type="checkbox"/> | Art. No. 9954010101 | 20 m | <input type="checkbox"/> | Art. No. 9954010112 | 20 m |
| <input type="checkbox"/> | Art. No. 9954010102 | 30 m | <input type="checkbox"/> | Art. No. 9954010113 | 30 m |

- Optional housing for the I/O module
- Optional incremental encoder with 10, 20 or 30 m cable length

Controller type

- LS controller
- Insetter

Register mark sensor

- RSH 1-channel version for marks which are in a row in direction of travel
- RSH 2-channel version for marks which are along each other or behind each other

I / O SIGNALS

Motor output signals L/S
Insetter output signals L
Insetter output PIV mode

24 V pulse width modulated
 ± 10 V
 24 V forward / backward

Digital inputs

Web transport / standstill
 Controller disable
 Splice signal
 Acceleration signal
 Gate tracking ON/OFF

Digital outputs

Mark alarm
 Controller OK (no alarm, in automatic)
 Waste warning
 Waste alarm

APPLICATIONS

Tailor-made system for all Inline and Offline applications

The **sincon_star** is designed for a wide variety of applications where a single register control system for the control of a length and side control channel is needed. Typical applications are:

Inserting in-register pre-printed material into the process

The Inserter function of the **sincon_star** is used to insert in-register pre-printed material in a printing press or an offline tool station.

Front to backside register control for CI Flexo printing press

The front to backside adjustment is carried out by a compensator which is controlled by the **sincon_star**.

Register control for a downstream unit in line with a CI Flexo printing press

The control is either carried out by a compensator or by directly interfacing the motion control of the print unit.

Register control for a tool station in line with a printing press

The Inserter function of the **sincon_star** is used for the electronic infinite transmission adjustment of the tool station.

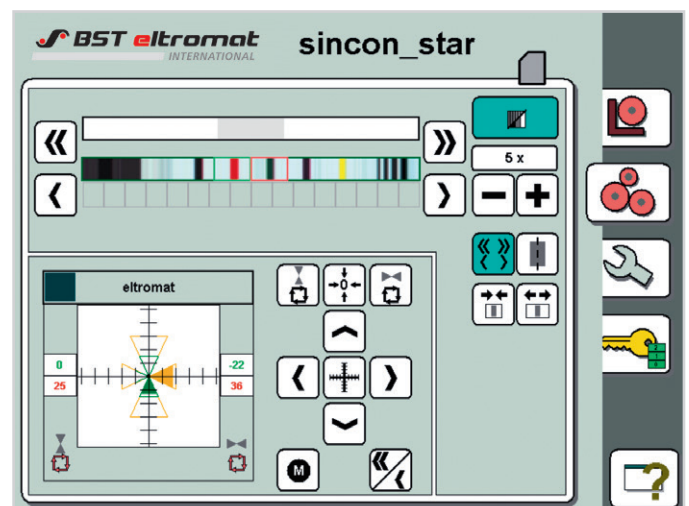
FUNCTIONS

Intelligent register mark sensor – 1-pixel color camera

The adaptive register mark sensor of the **sincon_star** is even able to detect extremely low-contrast colors and metallised inks, as well as transparent lacquer. The register mark sensor developed as a 1-pixel camera analyses the color spectrum of the light reflected from the web, and automatically detects all types of register marks. Thanks to the great depth of focus provided by the fibre optics, the user must change neither the signal amplification nor the scanning angle – the reliable mark detection is performed without any operator intervention. As a light source, a long-life, maintenance-free LED is used.

Live image of the register marks

For the first time, it is possible to provide the operator with a live color image of the register marks due to the newly developed 1-pixel color camera. This allows a distinct allocation of printed marks even when they are difficult to detect. Thus, the times in which it was difficult for the operator to determine whether or not the correct print marks were selected are finally over.



Simple, intuitive operation

The modern touch_screen interface with integrated on-line help makes an operating manual obsolete. The operators are quickly familiar with the system. Time and material are saved, because operating errors are avoided.

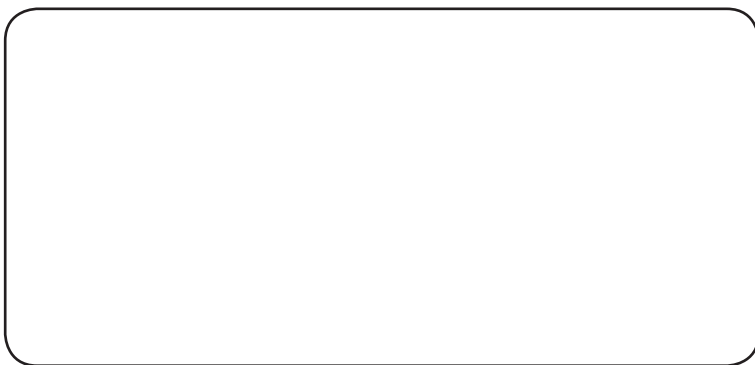
SMART SERVICE TO HELP YOU ACHIEVE THE NEXT LEVEL.

No matter where you use our technologies, we are here for you, providing dependable BST eltromat service. Our experts are available internationally and will be quick to help you sort out any issues. You can rely on a broad global production and sales network, ensuring first-class service anywhere in the world.

Being partners for top quality: To ensure you achieve maximum value, all our systems are precisely aligned to your specific conditions. You define what you need: project-based cooperation or a full BST eltromat service package. No matter what you choose, we are fully committed to making your products define new benchmarks.

To learn more, please visit www.bst-international.com

Your local contact



Be inspired. Move forward.

BST eltromat International

Heidsieker Heide 53 • 33739 Bielefeld • Germany
Tel.: +49 5206 999-0 • Fax: +49 5206 999-999
info@bst-international.com

A member of the **eLEXIS** Group
© 2015 BST eltromat International • BST-eltromat_B413_0215_EN • Subject to modification

 **BST eltromat**
INTERNATIONAL