

## // Product Sheet ekr 500 digital Unit Touch

Picture ekr 500 digital Unit Touch Controller



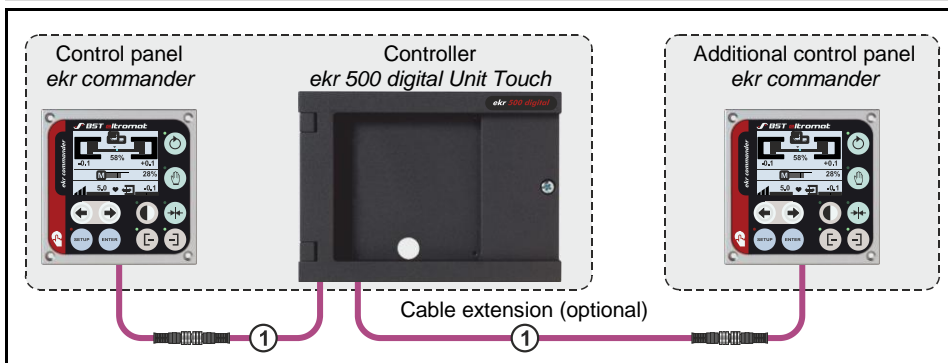
### Characteristics

- Functional scope specifically designed for classic web guiding applications
- Compact design
- Removable *ekr commander* control panel
- Simple and intuitive operation via colour display with touch functionality
- Fast and direct access to all important guiding functions
- Convenient installation, wiring, commissioning and operation
- Different sensors connectable
- Connection for *FVG POS 100* motorized sensor positioner
- Networking with external control systems

### Functions

<b>Guiding Functions</b>	<ul style="list-style-type: none"> <li>• Web edge guiding (guiding to the left or the right web edge)</li> <li>• Web center-line guiding</li> <li>• Line and contrast guiding (in conjunction with the <i>CLS Pro 600</i> line and contrast sensor)</li> <li>• Watchdog</li> <li>• Guiding to a printed line or contrast edge with automatic switching to web edge guiding when the printed line / contrast edge is interrupted or lost</li> <li>• Position control (in manual mode)</li> <li>• Oscillation (with adjustable amplitude and frequency)</li> <li>• Display of the web width</li> </ul>
<b>Remote Control Input for</b>	<ul style="list-style-type: none"> <li>• Automatic mode</li> <li>• Manual mode</li> <li>• Servo center</li> <li>• Web edge / web center-line guiding</li> <li>• Line / contrast guiding</li> <li>• Manual adjustment (left / right)</li> <li>• Keyboard interlock</li> <li>• Controller interlock (blocking)</li> <li>• Setup lock</li> </ul>

### Removable *ekr commander* Control Panel



### Intended Use

The *ekr 500 digital Unit Touch* (part number 3COBL248878) is a compact web guiding controller with removable control panel and colour display with touch functionality. It can be used for web edge guiding (guiding to the right or left web edge), web center-line guiding as well as line and contrast guiding. The web guiding controller is intended for the installation in another machine or for the merge with other machines to a machine in accordance with Council Directive 2006/42/EC (Machinery Directive).

*Note: For installation, commissioning and operation, please refer to the separate installation and operating manual.*

### Connectable Components

#### Sensors

- Digital edge sensors (optical and ultrasonic sensors)
- Analogue edge sensors (*RS ...*)
- *CLS Pro 600* line and contrast sensor
- CCD cameras *CCDPro*, *CCD CAM 100*

#### Actuators

- Electric motor powered actuators with and without position feedback

#### Sensor Positioners

- *FVG POS 100* sensor positioner

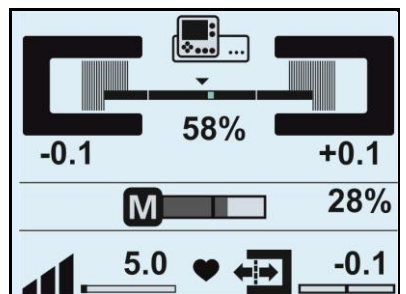
#### Remote Control Units

- Additional *ekr commander* control panel (3COBL242434)

#### Interfaces

- CANopen
- Ethernet (UDP), *CAN-to-Ethernet coupler* required

#### Operation Display



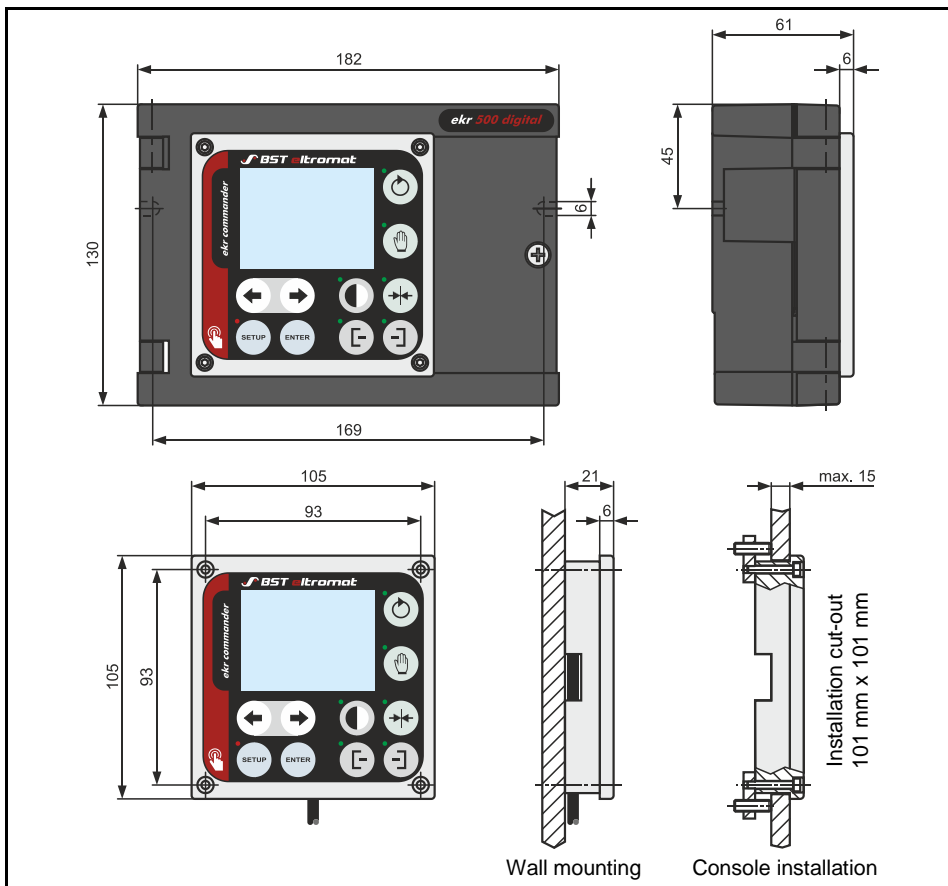
Clearly arranged graphical display of

- Sensor coverage
- Actuator position
- Controller gain
- Guiding setpoint

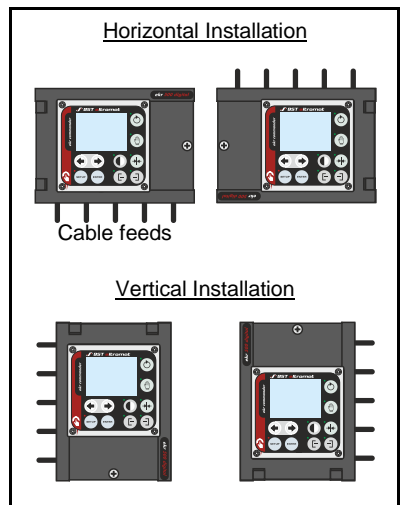
Additional screen displays are selectable by the operator.

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### Dimensions [mm]



### Installation Positions



### ekr commander Attachment

#### Wall Mounting

Control panel installation on a level surface.

#### Console Installation

Control panel installation in an operator panel or a control station.

Accessories required:  
Installation kit (3COBL133459)

#### Magnet Attachment

Control panel installation on a ferromagnetic surface.

Accessories required:  
Magnet installation kit (3BGSO148887)

### Electrical Data

Supply Voltage	24 V $\pm$ 10 %
Power Consumption	4 A max.

### Inputs/Outputs

<b>Analogue Inputs</b>	<ul style="list-style-type: none"> <li>Analogue sensors (0 ... 10 V<math>\pm</math> / 0 ... 20 mA)</li> <li>Actuator position feedback (0 ... 10 V<math>\pm</math>)</li> <li>Servo center transducer (Namur)</li> <li>Machine speed (0 ... 10 V<math>\pm</math>)</li> </ul>
<b>Digital Inputs</b> (configurable via function tables)	<ul style="list-style-type: none"> <li>Digital sensors (BST-eltromat CAN bus)</li> <li>Remote control</li> <li>Controller interlock (blocking)</li> </ul>
<b>Outputs</b> (configurable via function tables)	<ul style="list-style-type: none"> <li>Motor output stage (24 V<math>\pm</math> PWM)</li> <li>OK signal</li> </ul>

### Colour Display With Touch Functionality

Resolution	320 x 240 pixels
Illumination	LED background lighting

### Weight

<b>ekr 500 digital Unit Touch Controller</b>	approx. 1.18 kg (without ekr commander control panel)
<b>ekr commander Control Panel</b>	approx. 0.28 kg

### Operating Conditions

Ambient Temperature	0 ... +45 °C (32 ... 113 °F)
Air Humidity	5 ... 90 % (no condensation)
Protection Class	IP 54

### Networking

#### CANopen

The integrated CANopen interface allows remote control and enquiry of the guiding parameters from an external control system (e.g. PLC). No additional devices are required for the communication between the web guiding controller and the customer's control.

#### Ethernet (UDP)

The optional CAN-To-Ethernet coupler (C2E Coupler) permits remote control of up to four ekr 500 digital Unit Touch web guiding controllers from an external control system with Ethernet interface (e.g. PLC, PC, machine control system, etc.).

### Conformities

Conformity	Directive
	2006/42/EC
	2011/65/EU