



MultiTouch Example

This visualization example shows how to evaluate and handle touch events of MultiTouch displays in CODESYS.

Product description

This visualization example shows how to evaluate and handle touch events of MultiTouch displays in CODESYS. If visualization is used on a MultiTouch display, then an additional control concept is available to the user. Apart from the usual mouse and keyboard events, gestures and touch events are evaluated and processed.

Supported gestures

- Pan gesture: pressing, shifting and releasing with a finger moves the contents of a window or a tab
- Flick gesture: fast shifting of a finger in an area, i.e. "flicking", leads to switching between different visualization screens
- Multi touch events: operating with several fingers at a time

Several elements in a visualization screen can be actuated at the same time with several fingers. Thus it is possible to develop a two-hand control or a virtual mixer in which several sliders can be actuated at the same time.

The `IGestureEventHandler` interface of the `VisuElems.VisuElemBase` library enables IEC 61131-3 code to be implemented in order to react to gestures. A gesture event can be intercepted and consequential actions can be implemented.

The following clients can execute visualization on a MultiTouch device

- CODESYS TargetVisu on a device with Windows operating system
- CODESYS TargetVisu on a device with Linux operating system

More information

The project `MultiTouchExample.project` shows the usage of the interface `IGestureEventHandler2`. The function block `GesturesHandler` implements the interface `IGestureEventHandler2`. At first the event handler must be registered at the event manager. This is done in the method `FB_Init` of the function block `GesturesHandler`. The methods `HandleFlickGesture`, `HandlePanGesture` and `HandleTouchEvent` will be called if a corresponding event occurs.

The example contains following functions:

Scrolling: Scrolling inside of frames and tab controls

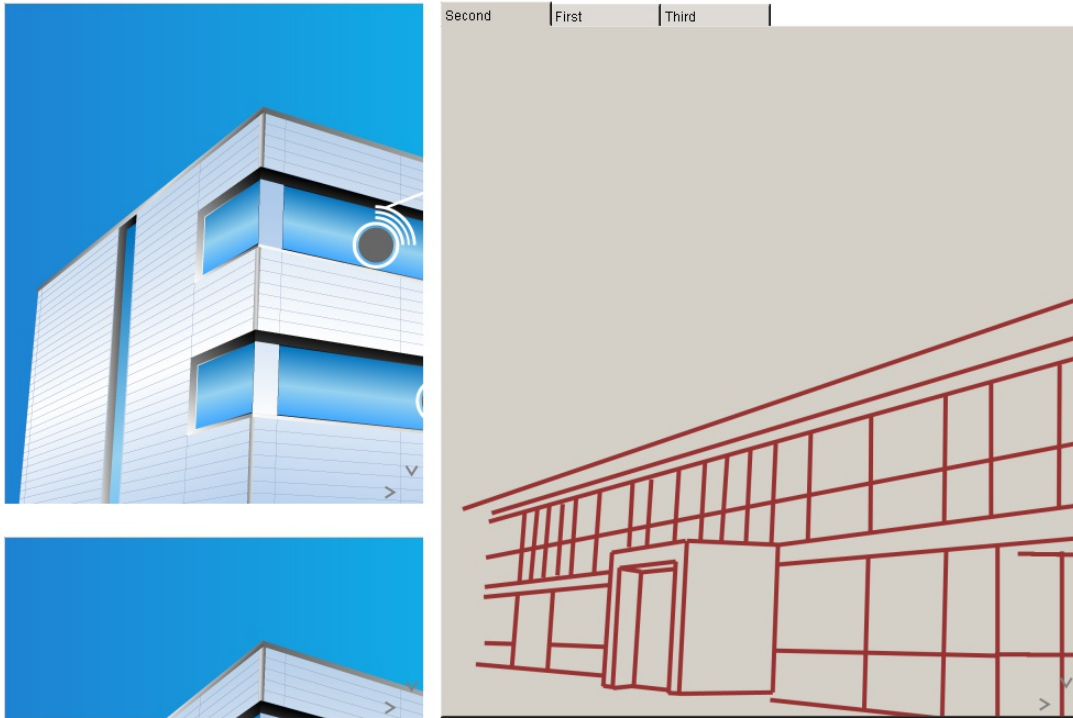
Multiple inputs: Simultaneous control of input elements

Two-hand inputs: The example demonstrates the input handling with two hands

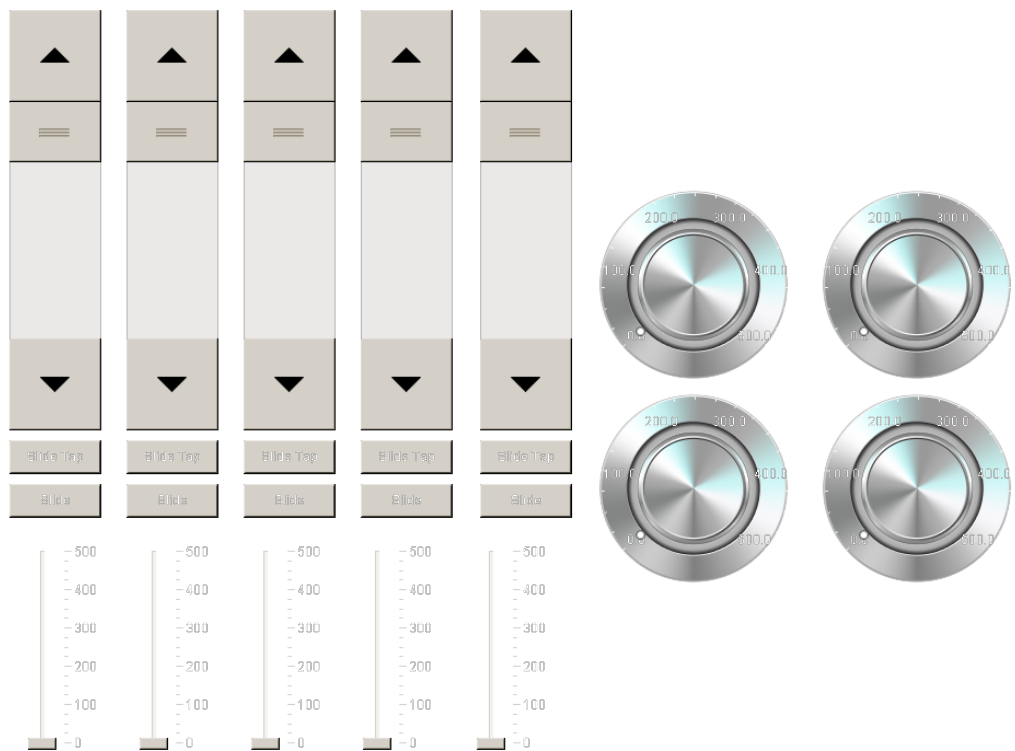
Handling in IEC: Event handling of touch events in IEC 61131-3; the example displays the current touch points at the screen

Flick detection: Counts the horizontal and vertical flick events

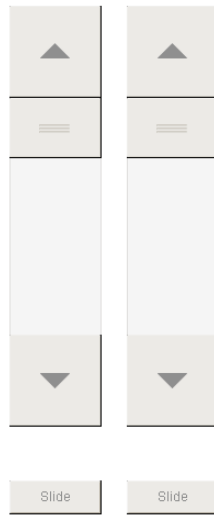
Screenshots



Scrolling Multiple Inputs Two-Hand inputs Handling in IEC Flick detection 



Scrolling Multiple Inputs Two-Hand inputs Handling in IEC Flick detection 



Unlock Inputs

Scrolling Multiple Inputs Two-Hand inputs Handling in IEC Flick detection



General information

Manufacturer:

3S-Smart Software Solutions GmbH
 Memminger Strasse 151
 87439 Kempten
 Germany

Support:

<https://support.codesys.com>

Item:

MultiTouch Example

Item number:

000057

Sales:

CODESYS Store

<https://store.codesys.com>

Included in delivery:

CODESYS Package

System requirements and restrictions

Programming System	CODESYS Development System Version 3.5.6.0 or higher
Runtime System	CODESYS Control Version 3.5.6.0
Supported Platforms/ Devices	Note: Use the project "Device Reader" to find out the supported features of your device. "Device Reader" is available for free in the CODESYS Store.
Additional Requirements	<ul style="list-style-type: none"> • CODESYS TargetVisu on a device with Windows operating system or CODESYS TargetVisu on a device with Linux operating system • MultiTouch display
Restrictions	-

Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact sales@codesys.com.

Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.