

Enabling switches, commonly referred to as "dead-man switches"), can be designed into a safety system to provide a special operating mode for specific tasks such as commissioning, maintenance, repair, or process set-up.
The safety system can be designed in a way that allows the enabling switch to activate other safety devices (for example, the enabling switch can allow slow-speed motion while a guard door is opened) in order to accomplish the specified tasks. The enabling unit consists of a spring-return, three-position grip (resting position (NO), middle position (NC), and fully squeezed position (NO)). If the operator releases the grip on the enabling device or squeezes it too much, then the safety system will activate and return the machine to a safe state.
Additional normally open pushbuttons are available on select models to wire into your system to perform actions such as machine reset, position setting, jogging the machine, inputs to a plc and more.

## Features

- Ergonomic (right- or left-handed)
- Easy to operate (even when wearing gloves)
- Robust housing in IP67
- Optional increased protection against manipulation with in-hand detection
- Optional built-in Estop, LED, pushbuttons, and activity ("home" position) sensor
- Universal connection via cable or terminals

| SSP zeus Three-Position Safety Enabling Switches Selection Guide |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Price | Three-Position Enabling Device | Estop Pushbutton | LED <br> Diagnostic | Number of Momentary Pushbuttons |  | In-Hand Sensor | Connection | Drawing |
| ZEUS01-000000 | \$219.00 | $\checkmark$ | - | - | - | - | - | Terminals | PDF |
| ZEUS01-000400 | \$253.00 | $\checkmark$ | - | - | - | - | - | 5 m [16.4 ft] cable | PDF |
| ZEUS01-100000 | \$234.00 | $\checkmark$ | - | $\checkmark$ | - | - | - | Terminals | PDF |
| ZEUS01-100400 | \$257.00 | $\checkmark$ | - | $\checkmark$ | - | - | - | 5 m [16.4 ft] cable | PDF |
| ZEUS01-120000 | \$249.00 | $\checkmark$ | - | $\checkmark$ | 1 | - | - | Terminals | PDF |
| ZEUS01-120400 | \$298.00 | $\checkmark$ | - | $\checkmark$ | 1 | - | - | 5 m [16.4 ft] cable | PDF |
| ZEUS01-130000 | \$292.00 | $\checkmark$ | - | $\checkmark$ | 2 | - | - | Terminals | PDF |
| ZEUS01-130400 | \$314.00 | $\checkmark$ | - | $\checkmark$ | 2 | - | - | 5 m [16.4 ft] cable | PDF |
| ZEUS11-030000 | \$280.00 | $\checkmark$ | $\checkmark$ | - | 2 | - | - | Terminals | PDF |
| ZEUS11-030400 | \$308.00 | $\checkmark$ | $\checkmark$ | - | 2 | - | - | 5 m [16.4 ft] cable | PDF |
| ZEUS11-100000 | \$267.00 | $\checkmark$ | $\checkmark$ | $\checkmark$ | - | - | - | Terminals | PDF |
| ZEUS11-100400 | \$298.00 | $\checkmark$ | $\checkmark$ | $\checkmark$ | - | - | - | 5 m [16.4 ft] cable | PDF |
| ZEUS11-120000 | \$277.00 | $\checkmark$ | $\checkmark$ | $\checkmark$ | 1 | - | - | Terminals | PDF |
| ZEUS11-120400 | \$310.00 | $\checkmark$ | $\checkmark$ | $\checkmark$ | 1 | - | - | 5 m [16.4 ft] cable | PDF |
| ZEUS11-130000 | \$310.00 | $\checkmark$ | $\checkmark$ | $\checkmark$ | 2 | - | - | Terminals | PDF |
| ZEUS11-130400 | \$326.00 | $\checkmark$ | $\checkmark$ | $\checkmark$ | 2 | - | - | 5 m [16.4 ft] cable | PDF |

## Three-Position Safety Enabling Switches With Enhanced Sensors

In addition to the standard models listed above, the following three SSP ZEUS Safety Enabling Switches feature two enhanced sensing capabilities. The activity sensor, or "home" position sensor, detects when the switch is placed in the ZEUS-H mounting bracket. The in-hand sensor detects when the sensor is being held in the user's hand.

SSP ZEUS Three-Position Safety Enabling Switches With Enhanced Sensors Selection Guide

| Part Number | Price | Three-Position <br> Enabling <br> Device | Estop <br> Pushbutton | LED <br> Diagnostic | Number of <br> Momentary <br> Pushbuttons | Activity <br> ("Home") <br> Sensor | In-Hand <br> Sensor | Connection | Drawing |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ZEUS01-131430 | $\$ 395.00$ | $\checkmark$ | - | $\checkmark$ | 2 | $\checkmark$ | $\checkmark$ | $5 \mathrm{~m}[16.4 \mathrm{ft}]$ cable | PDF |
| ZEUS11-121430 | $\$ 423.00$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | 1 | $\checkmark$ | $\checkmark$ | $5 \mathrm{~m}[16.4 \mathrm{ft}]$ cable | PDF |
| ZEUS11-131430 | $\$ 431.00$ | $\checkmark$ | $\mathbf{V}$ | $\mathbf{V}$ | 2 | $\checkmark$ | $\checkmark$ | $5 \mathrm{~m}[16.4 \mathrm{ft}]$ cable | PDF |

## SSP (Safety System Products)

 Three-Position Safety Enabling Switches

## Connection Diagram Example



NOTE: The connection diagram above shows the terminals for all functions of the ZEUS.

## Not all functions will be available on all part numbers.

Please refer to the data sheet for each specific part number for the corresponding connection diagram.

## SSP (Safety System Products) Three-Position Safety Enabling Switches Mounting Brackets

SSP ZEUS Three-Position Safety Enabling Switch Mounting Brackets

| SSP 2EDS Mounting Bracket Selecion Guide |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Part Number | Price | Material | Weight <br> g[oz] | Drawing |
| ZEUS-H * | $\$ 60.00$ | Glass-fiber reinforced <br> thermoplastic | $30[1.1]$ | $\underline{\text { PDF }}$ |
| ZEUS-H2 | $\$ 35.00$ | Stainless steel | $119[4.2]$ | $\underline{\text { PDF }}$ |

* For the Activity Sensor to work, a ZEUS-H is required.


ZEUS-H

## Examples of Mounting Brackets Attached to Unit



ZEUS01-000000 resting in the ZEUS-H2 stainless steel mounting bracket


ZEUS11-131430 resting in the ZEUS-H glass-fiber reinforced mounting bracket

## Safety Products



Warning: Safety products sold by AutomationDirect are Safety components only. The purchaserinstaller is solely responsible for the application of these components and ensuring all necessary steps have been taken to assure each application and use meets all performance and applicable safety requirements and/or local, national and/or international safety codes as required by the application. AutomationDirect cannot certify that our products, used solely or in conjunction with other AutomationDirect or other vendors'products, will assure safety for any application. Any person using or applying any products sold by AutomationDirect is responsible for learning the safety requirements for their individual application and applying them, and therefore assumes all risks, and accepts full and complete responsibility, for the selection and suitability of the product for their respective application.

AutomationDirect does not provide design or consulting services, and cannot advise whether any specific application or use of our products would ensure compliance with the safety requirements for any application.

