## Overview

## PERSONAL SAFETY

The command circuit that authorises the start-up of the process is closed only by the complete insertion of the safety key, and the circuit is opened when this is removed. This prevents intentional tampering with the machine by the operator until the safety protection device is opened.

## OPERATING SAFETY

Designed to lock the safety device when closed, when the key is inserted in the switch the multiple block device is activated and the NC contact can be closed.

## SAFETY IN USE

The device has been designed to permit limited key vibration to make it relatively insensitive to mechanical disturbances.


The high precision PA6 thermoplastic drive head, reinforced with glass fibre, colour RAL 9005, for the correct insertion of the command key.

- The head can be rotated through $90^{\circ}$. Four possibilities for the lateral connection of the key and one on the upper surface (5 way).


## - 5 WAY COMMAND KEYS



Overview

The E802 series electromagnetic lock/release 5-way key safety switchs are used in the protection barriers of machines with inertia movement (machines whose stoppage time is greater than the access time to the action zone), which require controlled opening of the protection systems.
The switches are in accordance with the EN292, EN294, EN60204, EN1088 and EN945-1 safety standards.
The range is available in metal and thermoplastic versions, both with five types of contact element, each of which is associated with three types of coil, depending on the operating voltage.

## E802...S5 - E802...S5/B

## SPRING LOCK DESIGN (E802...S5 and E802...S5/B)

The spring lock holding mechanism operates on the rest current principle. When the power supply voltage of the electromagnet is cut off, it is not possible to open the safety barrier directly. This means that once the key has been inserted it is locked in place by elastic force and can be removed only by supplying power to the magnet or rotating the auxiliary release device.



E102-5 way with 25 key

| Code | Model | Description | Type |  | Travel diagram | Weight |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EN840010 | E102 01 S5I | 1NO+1NC <br> Slow action | 01 |  |  | 0,100 |
| EN840020 | E102 04 S5I | 2NC <br> Slow action | 04 | $\underbrace{11}_{12} 221$ |  | 0,100 |


| Code | Model | Description Weight |  |
| :---: | :---: | :---: | :---: |
| ER840130 | 25 | Angle key with fixing perpendicular |  |
|  |  | to the drive direction, supplied as series | 0,100 |


| Code | Model | Description Weight |  |
| :--- | :--- | :--- | :--- |
| ER840140 | Z5-1 | Straight key for straight line shift | 0,100 |




| Code | Model | Description Weight |  |
| :--- | :--- | :--- | :--- |
| ER844510 | $\mathbf{Z 5 - 3}$ | Long straight key for straight line shift | 0,200 |

$\qquad$
Code Model Description Weight
ER844500 $\quad$ Z5-4 Long angle key with fixing
perpendicular to the drive direction 0,200

## Dual insulation plastic



## 5 way with electromagnetic release

Driver locked mechanically. Can be removed electrically by supplying power to the electromagnet or rotating the auxiliary release device



Locked: electromagnet de-energised,
key in
Released: electromagnet excited,
key in
Open: electromagnet excited key out


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| Code | Model | Description Weight |
| :--- | :--- | :--- |
| ER844500 | $\mathbf{Z 5 - 4}$ | Long angle key with fixing |

$\qquad$
ER844510 Z5-3 Long straight key for straight line shift

ER844500 Z5-4 Long angle key with fixing
perpendicular to the drive direction 0,200

## Installing the key driver

Assembly of the driver on a rotating protective device (allow space for pivot points)
Type of key

Installing the key driver
Assembly of the driver on a rotating protective device (allow space for pivot points)


Dual insulation plastic - Metal

| Series | Side view | Front view | Top view | Series | Side view | Front view | Top view |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { E102 } \\ & \text { S5I } \\ & \text { (5 way) } \end{aligned}$ |  |  |  | E402 <br> S5I S5M <br> (5 way) |  |  |  |
| E202 <br> S5I S5M <br> (5 way) |  |  |  | E802 <br> S5I S5M <br> S5I.../E <br> S5M.../E <br> (5 way) |  |  |  |
| $\begin{aligned} & \text { E302 } \\ & \text { S5M } \\ & \text { (5 way) } \end{aligned}$ |  |  |  | E802 <br> S5I.../B <br> S5M.../B <br> (5 way) |  |  | 4 - |

