## 1 - Code Construction



Operating head:
KP: plastic head

Operating head:
1: standard
2...4: head orientation
Contact elements:

| CODE | DESCRIPTION |
| :--- | :--- |
| FA1 | 1 contact moved by actuator +3 contacts moved by solenoid |
| FA2 | 1 contact moved by actuator +3 contacts moved by solenoid |
| FA3 | 2 contacts moved by actuator +2 contacts moved by solenoid |

## 2 －Index

| Series | Contact element |  |  | Solenoid voltage |  |  | FEP＇s Type |  | Page |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FEP5KP | FA1 | FA2 | FA3 | 24 V | 120V | 230 V | Electrical block | Mechanical block |  |
| － | － |  |  | － |  |  | － |  | 3 |
| － |  | － |  | － |  |  | － |  | 4 |
| － |  |  | $\bullet$ | － |  |  | － |  | 5 |
| － | － |  |  |  | － |  | － |  | 3 |
| － |  | － |  |  | － |  | － |  | 4 |
| － |  |  | － |  | － |  | － |  | 5 |
| － | － |  |  |  |  | － | － |  | 3 |
| － |  | － |  |  |  | － | － |  | 4 |
| － |  |  | － |  |  | － | － |  | 5 |
| － | － |  |  | － |  |  |  | － | 6 |
| － |  | － |  | － |  |  |  | － | 7 |
| － |  |  | $\bullet$ | － |  |  |  | － | 8 |
| － | － |  |  |  | － |  |  | － | 6 |
| － |  | － |  |  | － |  |  | － | 7 |
| － |  |  | － |  | － |  |  | － | 8 |
| － | － |  |  |  |  | － |  | － | 6 |
| － |  | － |  |  |  | － |  | － | 7 |
| － |  |  | － |  |  | － |  | － | 8 |

## 3 －Components detection



## 4 - Data sheet FEP5KP•FA1 -



| Key 25 | Key 26 | Key 27 | Key 28 |
| :---: | :---: | :---: | :---: |
|  | $\rightarrow$ |  | 8.415 |


| FA1 <br> 1 contact moved by actuator $+$ 3 contacts moved by solenoid |  |  |  |
| :---: | :---: | :---: | :---: |
| Actuator | Inserted and locked | Inserted and unlocked | Not inserted |
| Solenoid | Excited | Not excited | - |
| Actuation |  |  |  |
| Actuator | ${ }_{11}-L_{12}$ | ${ }_{11} \text { Ł }_{12}$ | $11 \longrightarrow$ - 12 |
| Solenoid | ${ }_{21} \breve{L}_{22}$ | $21 \square-22$ | $21-22$ |
| Solenoid | $33->-34$ | ${ }_{33}-L_{34}$ | ${ }_{33} \text { L }_{34}$ |
| Solenoid | ${ }_{41}-\bigsqcup_{42}$ |  | ${ }_{41}$ - ${ }_{42}$ |

## 5 －Data Sheet FEP•KP•FA2－•••E



Vertical and horizontal insertion．Operating head available rotated by $90^{\circ}$ ，not removable by the user．

Electrical block：actuator blocked when the solenoid is excited．The release is possible by cut power．ATTENTION：In case of lack of voltage，the device allows immediately access to the protected area．

| Solenoid electrical data（3 different versions） |  |
| :---: | :---: |
| 24 V | Max．0．35A－8．34W |
| 120 V | Max．0．08A－8．14W |
| 230 V | Max．0．03A－6．83W |
| Duty Cycle ED | $100 \%$ |
| 21 |  |



| FA2 <br> 1 contact moved by actuator $+$ 3 contacts moved by solenoid |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| Actuator | Inserted and locked | Inserted and unlocked | Not inserted |
| Solenoid | Excited | Not excited | － |
| Actuation |  |  |  |
| Actuator | $13 \longrightarrow$－ 14 |  | ${ }_{13} \text { L }_{14}$ |
| Solenoid | ${ }_{21}\left\llcorner_{22}\right.$ | $21 \square 22$ | $1-22$ |
| Solenoid | $33 \square-34$ | ${ }_{33}-L_{34}$ | ${ }_{33}-L_{34}$ |
| Solenoid | ${ }_{41}-\left\llcorner_{42}\right.$ | $41 \longrightarrow$－ 42 | $41-42$ |

6 - Data Sheet FEP•KP•FA3- $\bullet \bullet E$



| *Key to be ordered separately |
| :--- |
| FA3 <br> 2 contacts <br> moved <br> By actuator <br> + <br> 2 contacts <br> moved by <br> solenoid |
| Actuator |
| Solenoid |
| Actuation |
| Solenoid |
| Solenoid |

## 7 －Data sheet FEP•KP•FA1－•••M



Mechanical block：Actuator blocked when the solenoid is not excited．The release is possible by feeding the device．

| Solenoid electrical data（3 different versions） |  |
| :---: | :---: |
| 24 V －FEP5KP•FA1－024M | Max．0．35A－8．34W |
| 120 V －FEP5KP•FA1－120M | Max．0．08A－8．14W |
| 230 V －FEP5KP•FA1－230M | Max．0．03A－ 6.83 W |
| Duty Cycle ED | $100 \%$ |



Code＇s example
FEP5KP1FA1－024M＝Rated voltage 24V
FEP5KP1FA1－120M＝Rated voltage 120V FEP5KP1FA1－230M＝Rated voltage 230V


| Key to be order | rately |  |  |
| :---: | :---: | :---: | :---: |
| FA1 <br> 1 contact moved by actuator $+$ 3 contacts moved by solenoid |  |  |  |
| Actuator | Inserted and locked | Inserted and unlocked | Not inserted |
| Solenoid | Not excited | Excited | － |
| Actuation |  |  |  |
| Actuator | ${ }_{11} L_{12}$ | ${ }_{11}$ | $11 \longrightarrow$－ 12 |
| Solenoid | ${ }_{21}-\measuredangle_{22}$ | $21-22$ | $21 \square-22$ |
| Solenoid | ${ }_{33} \simeq{ }_{34}$ | ${ }_{33}-L_{34}$ | $33 ـ \boxed{L}$ |
| Solenoid | ${ }_{41}-\bigsqcup_{42}$ |  | $41-$－ 42 |

## 8 - Data sheet FEP•KP•FA2 -



Mechanical block: Actuator blocked when the solenoid is not excited. The release is possible by feeding the device.

| Solenoid electrical data (3 different versions) |  |
| :---: | :---: |
| 24 V - FEP5KP•FA2-024M | Max. 0.35A-8.34W |
| 120 V - FEP5KP•FA2-120M | Max. 0.08A-8.14W |
| 230 V - FEP5KP•FA2-230M | Max. 0.03A -6.83 W |
| Duty Cycle | $100 \%$ |



## Code's Example

FEP5KP1FA2-024M = Rated voltage 24 V
FEP5KP1FA2 - 120M = Rated voltage 120V
FEP5KP1FA2-230M = Rated voltage 230V


| *Key to be ordered separately |  |  |  |
| :---: | :---: | :---: | :---: |
| FA2 <br> 1 contact moved by actuator $+$ 3 contacts moved by solenoid |  |  |  |
| Actuator | Inserted and locked | Inserted and unlocked | Not inserted |
| Solenoid | Not excited | Excited | - |
| Actuation |  |  |  |
| Actuator | ${ }^{13}$ - ${ }^{14}$ | $13 \longrightarrow$ - ${ }^{14}$ | ${ }_{13}-\swarrow_{14}$ |
| Solenoid |  | ${ }^{21}$ - ${ }^{22}$ | $21-22$ |
| Solenoid | ${ }_{33} \square_{34}$ | ${ }_{33}-L_{34}$ | ${ }_{33}-L_{34}$ |
| Solenoid |  | ${ }_{41} \times{ }_{42}$ |  |

## 9 - Data Sheet FEP•KP•FA3- •••M



| Key to be ordered separately |  |  |  |
| :---: | :---: | :---: | :---: |
| FA3 <br> 2 contact moved by actuator $+$ 2 contacts moved by solenoid |  |  |  |
| Actuator | Inserted and locked | Inserted and unlocked | Not inserted |
| Solenoid | Not excited | Excited | - |
| Actuation |  |  |  |
| Actuator | $13 \longrightarrow$ - 14 |  | ${ }_{13-14}$ |
| Solenoid | ${ }_{21}-\swarrow_{22}$ | $21 \square-22$ | $21-22$ |
| Actuator |  | ${ }_{31} \text { Ł }_{32}$ | $31 \frown-32$ |
| Solenoid | ${ }_{41}-L_{42}$ | 41 - ${ }^{42}$ | ${ }_{41}$ - ${ }^{42}$ |

## Electromagnetic Safety Switch With Separated Actuator

## 10 - Electrical and mechanical Data



