# RFID Guard Locking Switch Metal TYPE: AYLOCK KLM-Z-4ST 

FEATURES \& APPLICATION:


## Solenoid Locking Switch featuring RFID interlocking and incorporating machine control functions

The KLM-Z-4ST incorporates all the switch features of the KLM-Z but offers extra machine control functions all in one housing incorporating standard 22 mm push buttons (see p80 for push button options available).

The KLM-Z-4ST has a slim profile and has been designed specifically to fit on 50 mm (2in.) frame sections or to applications where space is restricted The head will rotate to offer end users flexibility by providing up to 8 actuator entry positions and includes front and entry sensing.

The KLM-Z-4ST housing will incorporate standard 22 mm push buttons, lamps or switches which can be added to provide machine request or control functions all from one KLM-Z-4ST housing.

Robust Stainless Steel 316 head and Die-Cast metal body.
Choice of standard or flexible actuators.
FUNCTIONAL SPECIFICATIONS:
Solid State OSSD Safety Outputs short circuit protected.
High Functional Safety to ISO13849-1, maintains Ple Interlocking via self-test technique when switches are connected in series to a safety controller or relay.

2 Safety Circuits - closed when switch is locked and machine able to run.
1 Auxiliary circuit for indication of Guard status (Guard open).
1 Auxiliary circuit for indication of Lock Status (Guard locked).
4 diagnostic LED's to display guard position, lock, input/output signals and fault status.

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SCHEMATIC \& CONNECTION EXAMPLE:


TERMINAL \& LED FUNCTIONS:

| Terminal | Function | Switch Circuit | Rating |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| R+ | 24 V dc | Supply 24 V dc | 50mA max. |  |  |
| OV | OV dc | Supply 24 V dc (Ground) |  |  |  |
| 11 | Safety Input 1 | Safety Circuit 1 | 200mA max. |  |  |
| 12 | Safety Output 1 |  |  |  |  |
| 21 | Safety Input 2 | Safety Circuit 2 | 200mA max. | LED 1 | uard State |
| 22 | Safety Output 2 |  |  | Guard Locked | Green |
| 44 | Auxiliary (Guard Open) | Guard open signal +24 V dc out | 200mA max. | Guard Unlocked | Green (Flashing) |
| 34 | Auxiliary (Guard Locked) | Guard locked signal +24 V dc out | 200mA max. | Incorrect Code | Red (Flashing) |
| S+ | Unlocked | Unlock signal apply +24 V dc | 500mA max. | Guard Open | Red |


| LED 2 Input |  |
| :---: | :---: |
| Safety Inputs On G | een |
| Safety Inputs Off O |  |
| LED 3 Output |  |
| Safety Outputs On G | Green |
| Safety Outputs Off O | Off |
| LED 4 Solenoid |  |
| Solenoid Energised | Red |
| Solenoid De-energised | Off |

## ORDERING LAMPS, PUSH BUTTONS AND SWITCHES SEPARATELY PLEASE REFER TO P80.

| SALES NUMBERS |
| :--- |
| KLM-Z-4ST Switch with STANDARD Actuator |
| KLM-Z-4ST Switch with HEAVY DUTY FLEXIBLE Actuator |
| REAR RELEASE OPTION SALES NUMBERS |
| KLM-Z-4ST-RR Switch with STANDARD Actuator |
| KLM-Z-4ST-RR Switch with HEAVY DUTY FLEXIBLE Actuator |



For all IDEM switches the normally closed (NC) circuits are closed when the guard is closed actuator inserted.

