# Guard Locking Switch Plastic Type: LEILOCK KL1-P 

FEATURES:


## Solenoid Locking Interlock Safety Switch featuring Guard Holding up to 1400 N ( 140 Kg ) (F1Max)

The KL1-P Series Guard Locking switches have a compact plastic body design and have been developed with a holding force of 1400 N to keep small to medium guard doors closed until hazards have been removed.

IP67 enclosure protection is maintained by a double seal lid gasket design and metal fixings.

The KL1-P switch has a low profile and fixing holes are on an industry standard 40 mm centre to enable easy fitting to new or existing guards (or where replacement of a non locking tongue switch is required).
The head will rotate to provide up to 4 actuator entry positions.

## CONTACTS/LED DIAGNOSTICS:

STANDARD - Version 1:
2NC Safety Contacts
1NO Auxiliary Contact (Guard Open)
1NO Auxiliary Contact (Lock Open)
LED1 Solenoid Power

EXTRA LED2 - Version 2:
2NC Safety Contacts
1NO Auxiliary Contact (Guard Open)
LED2 Lock Status:
Closed and Locked
LED1 Solenoid Power



Hinged Guard


Sliding Guard

FUNCTIONAL SPECIFICATIONS:
ACTUATOR OPTIONS (see p76)
Positive Break Contacts to EN60947-5-1


High Functional Safety to ISO13849-1
High specification polyester housing with Stainless Steel Head Connects to most Safety Relays to give up to PLe Cat. 4
Will fit on 40 mm fixing centres
2 manual override points
Universal M12 8 way microlock
Quick Connector version available for ease of installation



HF

Heavy Duty Stainless Stee


HFH

ACCESSORIES (see p70-75)


Fits to switch aperture during maintenance and provides multiple padlock holes.

INSERTION OF ACTUATOR

| 6.05 .0 |  |  |  | 0 mm |
| :---: | :---: | :---: | :---: | :---: |
| $11 / 12$ | Open |  |  |  |
| $21 / 22$ | Open |  |  |  |
| $33 / 34$ |  | Open |  |  |
| $43 / 44$ |  | Open |  |  |

Standards:
Safety Classification and Reliability Data Mechanical Reliability B10d

ISO13849-1 Up to PLe depending upon system architecture
EN62061 Up to SIL3 depending upon system architecture
Safety Data - Annual Usage 8 cycles per hour/24 hours per day/365 days
PFHd $3.44 \times 10^{-8}$
Proof Test Interval (Life) 35 years
MTTFd 356 years
Solenoid Voltage (by Sales Number) 24 V ac/dc or 110 Vac or 230 Vac
Solenoid Wattage 12W
LED 2 Version Supply Voltage 24 Vdc
Utilization Category AC15 A300 3A
Thermal Current (lth)
Rated Insulation/Withstand Voltages 600Vac/2500Vac
Travel for Positive Opening 10 mm
Actuator Entry Minimum Radius 175 mm Standard 100 mm Heavy Duty
Maximum Approach/Withdrawal Speed $600 \mathrm{~mm} / \mathrm{s}$
Holding Force F1Max 1400N Fzh 1076N
Body Material Polyester
Head Material Stainless Steel 316
Enclosure Protection IP67
Operating Temperature $-25 \mathrm{C}+50 \mathrm{C}$
IEC $68-2-6 \quad 10-55 \mathrm{~Hz}+1 \mathrm{~Hz}$
Onduit Entry Excursion 0.35 mm 1 octave/min
Conduit Entry Various (See Sales Number)
Fixing $2 \times \mathrm{M} 5$


EXTRA LED2 - VERSION 2
LED1 Status of Solenoid
LED2 Status of Lock
2NC Safety Contacts
1NO Auxiliary (Guard Open) Contact

DIMENSIONS:




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

