Guard Locking Switch Metal: RAMZLOCK KLTM

FEATURES:



CONTACTS:

KLTM

4NC Safety Contacts

1NO Auxiliary Contact (Guard Open) 1NO Auxiliary Contact (Guard Locked)

(selectable option for LED2 Guard Locked)

LED1 RED Solenoid Power On

LED2 GREEN Switch Locked (if selected)

FUNCTIONAL SPECIFICATIONS:

Positive Break Contacts to EN60947-5-1 Rugged Die Cast Metal Housing with Stainless Steel 316 Head Will fit on 73mm fixing centres

Connects to most Safety Relays to give up to PLe Cat.4 M23 Quick Connector version available for ease of installation 2 manual override points

LED diagnostics for Solenoid, Lock and faults

ACTUATOR OPTIONS (see p154)

Standard Flat **Heavy Duty Heavy Duty** Flexible Stainless Steel HF **HFH**

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

Solenoid Locking Door Interlock Safety Switch Guard Holding up to 3000N (300Kg) (F1Max)

The KLTM Series Guard Locking switch is a tongue-type safety interlock device that integrates traditional mechanical anti-tamper technology, utilizing IDEM Safety Switches' patented cam system.

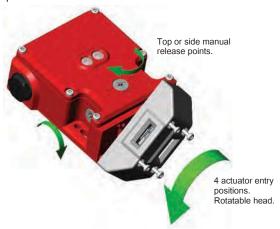
These switches securely interlock and hold guard doors closed, safeguarding operators from moving or hazardous machinery. They are particularly well-suited for applications where high antitamper protection is essential to prevent accidental or intentional attempts to bypass the interlock.

The KLTM solenoid locking switch features a robust metal body, designed to deliver a maximum holding force of 3000N, ensuring that medium to large guard doors remain securely closed until all hazards have been removed.

With IP67 enclosure protection, provided by a specialized doubleseal lid gasket design and metal fixings, these switches are built to withstand challenging environments.

The KLTM has a low-profile design, with industry-standard 73mm center mounting holes, allowing for easy retrofitting to both new and existing guards, especially in scenarios requiring enhanced anti-tamper measures.

The head is designed to rotate, offering up to 4 actuator entry positions for flexible installation.



Standards: ISO14119 EN60947-5-1 EN60204-1 ISO13849-1 EN62061 UL 60947-5-1

Safety Classification and Reliability Data:

Mechanical Reliability B10d

ISO13849-1 EN62061

Safety Data – Annual Usage

2.5 x 106 operations at 100mA load Up to PLe depending upon system architecture Up to SIL3 depending upon system architecture 8 cycles per hour/24 hours per day/365 days MTTFd 356 years

Technical Specification:

Solenoid Voltage (by Sales Number) Solenoid Wattage Utilization Category Thermal Current (lth) Rated Insulation/Withstand Voltages

Travel for Positive Opening Maximum Approach/Withdrawal Speed Holding Force Body Material Head Material

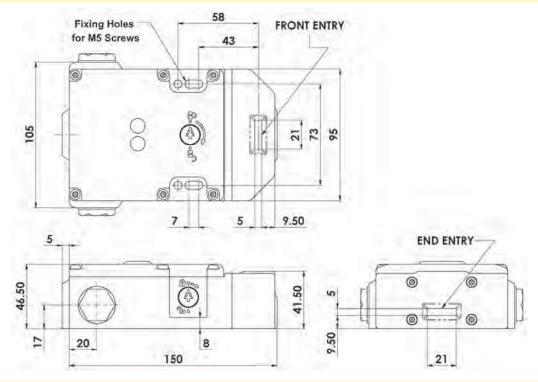
Enclosure Protection Operating Temperature Vibration

24V ac/dc or 110Vac or 230Vac 12W AC15 A300 3A 5A 600Vac/2500Vac 600mm/s F1Max 3000N Fzh 2307N Die Cast Metal (painted red) Stainless Steel 316 -25C +40C IEC 68-2-6 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min

Conduit Entry Various (See Sales Number) Fixing 2 x M5

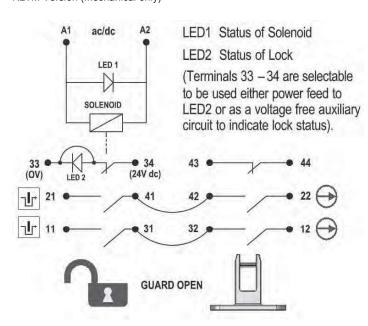
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DIMENSIONS:



SCHEMATIC CIRCUIT:

KLTM Version (Mechanical only)





Quick Connect (QC) M23 12 Way Male Plug Connector Length 24mm Pin View from Switch		KLTM Switch Circuit		
1	3	A1	A2	
4	6	11/	12	
7	8	21/	22	
2	5	43/	44	
9		33		
10		34		
12		Earth		

FEMALE QC LEADS	LENGTH	SALES NUMBER
M23 12 Way	5m (15ft)	140143
M23 12 Way	10m (30ft)	140144



SALES NUMBER	SOLENOID VOLTAGE	M20	1/2" NPT	QC M23	
RAMZLOCK KLTM Switch	24V ac/dc	450001	450002	450003	
RAMZLOCK KLTM Switch	110V ac	450004	450005	450006	
RAMZLOCK KLTM Switch	230V ac	450007	450008	450009	
RAMZLOCK KLTM Actuator	Standard	Add A	to Sales Part Number		
RAMZLOCK KLTM Actuator	Flat	Add F	to Sales Par	to Sales Part Number	
RAMZLOCK KLTM Actuator	Heavy Duty Flexible	Add HF	to Sales Part Number		
RAMZLOCK KLTM Actuator	S/Steel Heavy Duty Flexible	Add HF	H to Sales Par	Number	
Ordering Example: KLTM M20 24V ac/dc Heavy Duty Flexible Actuator: Sales Number: 450001-HF					