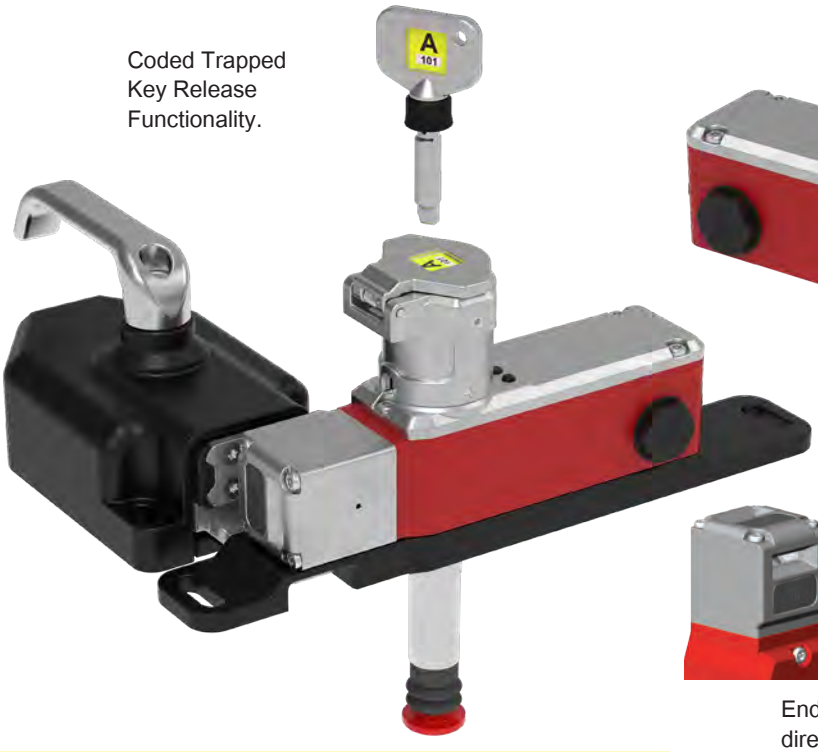
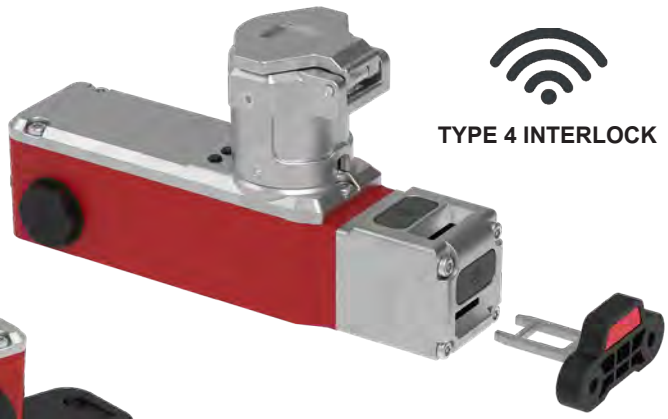
RFID Guard Locking with Trapped Key: **KLM-Z-SKR**

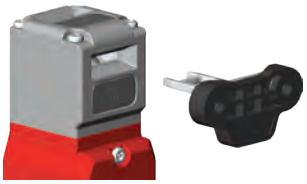
FEATURES:

Coded Trapped Key Release Functionality.





TYPE 4 INTERLOCK



End entry actuation direction.

Front entry actuation direction.

OVERVIEW:

Guard Locking Switch with RFID Interlocking and Coded Trapped Key.

The KLM-Z-SKR Guard Locking Switches are engineered with high anti-tamper RFID coding, providing PLe safety levels according to ISO13849-1.

Integrated Coded Key: The key is released when the unlock signal is present. The guard cannot be relocked until the key is trapped, reducing the risk of inadvertent startup.

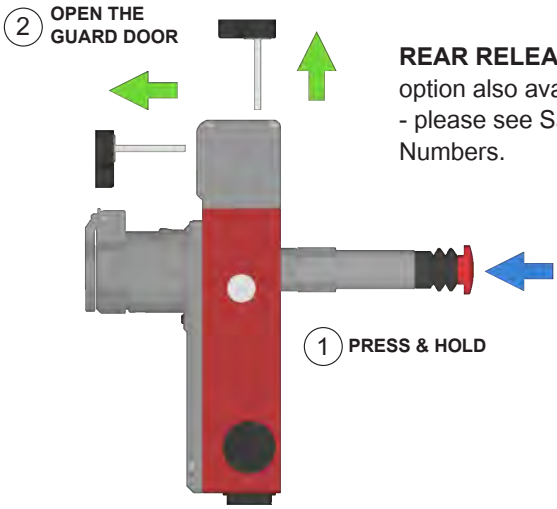
Dual Locking System: RFID sensing is complemented by a traditional cam locking system, designed with a holding force of 3000N to ensure guard doors remain closed until hazards are removed.

Rotating Head: Offers both front and end actuation.

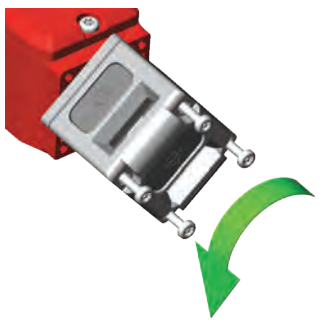
High Coding Level: Features 32 million unique RFID codes, meeting high coding standards per ISO14119.

Robust Construction: The die-cast metal enclosure is rated IP67, with a double seal lid gasket design for enhanced protection.

Compact Design: Slim profile suitable for 50mm (2in) frame sections or applications with limited space. The head rotates to provide up to 8 actuator entry positions, including front and end entry sensing.



REAR RELEASE option also available - please see Sales Numbers.



Unique design offering both Front or End entry actuation.

Head will rotate to give 8 actuator entry positions for full flexibility depending on application.

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.

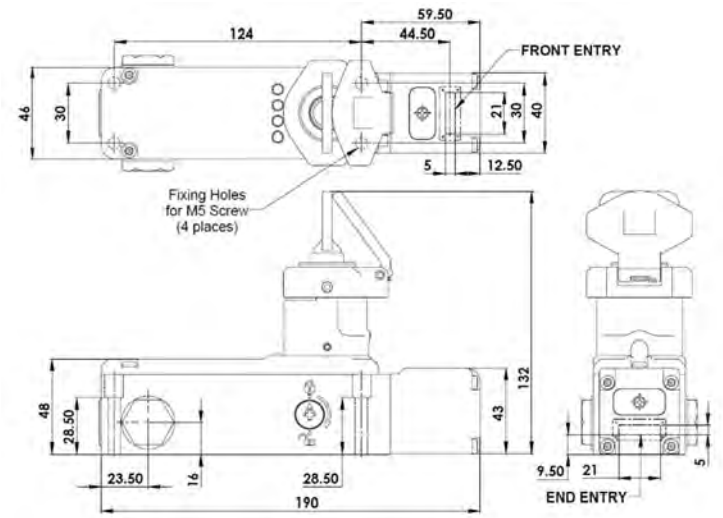
ACTUATOR OPTIONS:

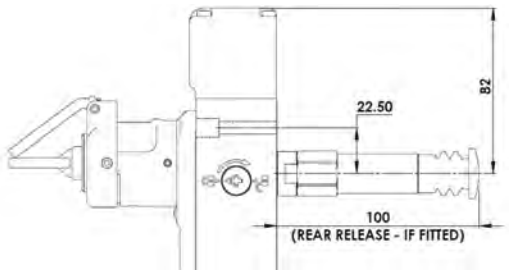
AZ Standard Actuator

HFZ Flexible Actuator

RFID Guard Locking with Trapped Key: **KLM-Z-SKR**

DIMENSIONS:





INDICATION DIAGRAM:

LED 1	Guard State
Guard Locked	Green
Guard Unlocked	Green (Flashing)
Incorrect Code	Red (Flashing)
Guard Open	Red

LED 2	Input
Safety Inputs On	Green
Safety Inputs Off	Off

LED 3	Output
Safety Outputs On	Green
Safety Outputs Off	Off

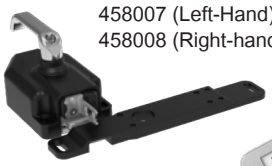
LED 4	Solenoid
Solenoid Energised	Red
Solenoid De-energised	Off

Technical Specification	
Standards	IEC60947-5-3, ISO14119, ISO13849-1, IEC62061
Supply Voltage	24Vdc (+/- 10%)
Power Consumption	R+ (50mA Max.) S+ (500mA Max) (Solenoid)
Safety Circuits	24V 0.2A
Auxiliary Circuits	24Vdc 0.2A Max. output current
Rated Insulation Voltage	500VAC
Holding Force (ISO14119)	F1 Max 3000N
Operating Frequency	1Hz
Material	Die-Cast Metal (Painted Red)
Enclosure Protection	IP67
Operating Temperature	-25C to +40C
Mechanical Life Expectancy	2.5 x 10^6 cycles
Vibration	IEC88-2-6, 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min

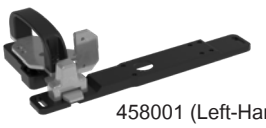
CONNECTIVITY:

Quick Connect (QC) M12 8 Way Male Plug	Terminal	Function	Switch Circuit
2	R+	24V dc	Supply 24V dc
3	0V	0V dc	Supply 24V dc (Ground)
7	11	Safety Input 1	Safety Circuit 1
1	12	Safety Output 1	
4	21	Safety Input 2	Safety Circuit 2
6	22	Safety Output 2	
8	44	Auxiliary (Guard Open)	Guard open signal +24V dc out
N/A	34	Auxiliary (Guard Locked)	Guard locked signal +24V dc out
5	S+	Unlocked	Unlock signal apply +24V dc

ACCESSORIES:



458007 (Left-Hand)
458008 (Right-hand)



458001 (Left-Hand)
458002 (Right-hand)

Key sold separately
(see page 263)

527005-L
527005-R

210005

ORDERING:

KLM-Z-SKR (Configuration Descriptor)	With Side Manual Release			Without Side Manual Release		
	M20	*1/2" NPT*	*M12-QC*	*M20*	*1/2" NPT*	*QC-M12*
Standard (KLM-Z-SKR)	454004	454005	454006	454304	454305	454306
Rear Release (KLM-Z-SKR-RR)	454014	454015	454016	454314	454314	454316