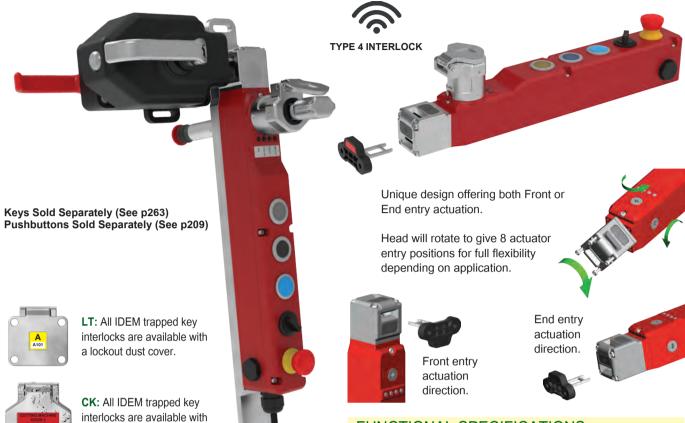
RFID Guard Locking Switch Metal: KLM-Z-SKR-5ST

FEATURES & APPLICATION:



OVERVIEW:

Introducing the Type 4 Guard Locking Switch with RFID interlocking, integrated machine control functions, and a trapped key.

a custom key label.

The KLM-Z-5ST builds on the features of the KLM-Z by offering additional machine control functions, accommodating up to five 22mm pushbuttons, and a coded trapped key, all housed in a durable casing (refer to p** for available pushbutton options).

When entry is requested, the trapped key can be turned and removed, allowing the operator to take the key inside the safeguarded area, reducing the risk of accidental start-up.

The KLM-Z-5ST featrues a slim profile, designed specifically for 50mm (2in.) frame sections or applications where space is limited. Its head rotates to provide up to 8 actuator entry positions, offering flexibility and including front and entry sensing.

The KLM-Z-5ST housing can incorporate standard 22mm pushbuttons, lamps, or switches, enabling machine request or control functions all from one housing.

Constructed with a robust Stainless Steel 316 head and a Die-Cast metal body, the KLM-Z-5ST offers a choice of standard or flexible actuators.





AZ Standard Actuator HFZ Flexible Actuator

FUNCTIONAL SPECIFICATIONS:

Solid State OSSD Safety Outputs short circuit protected.

High Functional Safety to ISO13849-1. Guard interlocking and lock monitoring to CAT 4, PL e and SIL 3. Safety ratings are maintained with up to 30 devices in series.

- 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.

IEC60947-5-3, ISO14119, ISO13849-1, IEC62061, UL 60947-5-1 24Vdc (+/- 10%) R+ (50mA Max.) S+ (500mA Max) (Solenoid)
R+ (50mA Max.) S+ (500mA Max) (Solenoid)
S+ (500mA Max) (Solenoid)
24V 0.2A
24Vdc 0.2A Max. output current
500VAC
F1 Max 3000N Fzh 2307N
1Hz
Stainless Steel 316
Die-Cast Metal
IP67
-25C to +40C
2.5 x 10 ⁶ cycles
IEC88-2-6, 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min

Characteristic data according to IEC62061 (used as a subsystem)

Safety Integrity Level

PFH (1/h) 4.80 E-10 Corresponds to 4.8% of SIL3 Proof Test Interval T₁

Charateristic data according to EN ISO13849-1

If both channels are used in conjunction with a Performance Level

Category Cat 4 1100a

Diagnostic Coverage DC

RFID Guard Locking Switch Metal: KLM-Z-SKR-5ST

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

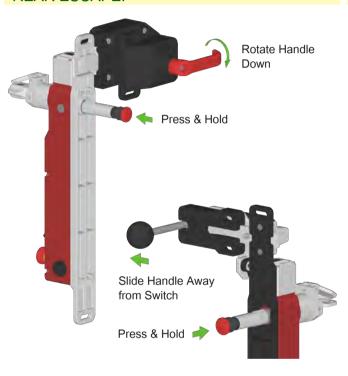
LED 3 U	utput				
Safety Outputs On	Green				
Safety Outputs Off	Off				
LED 4 Solenoid					
Solenoid Energised	Red				

Solenoid De-energised Off

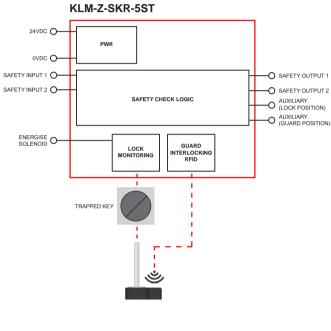
CONNECTIVITY:

Terminal	Function	Switch Circuit	Rating	
R+	24V dc	Supply 24V dc	50mA max.	
0V	0V dc	Supply 24V dc (Ground)	SUITA HIAX.	
11	Safety Input 1	Safety Circuit 1	200mA max.	
12	Safety Output 1	Salety Circuit 1	200MA Max.	
21	Safety Input 2	Safety Circuit 2	200mA max.	
22	Safety Output 2	Salety Circuit 2	20011A IIIax.	
44	Auxiliary (Guard Open)	Guard open signal +24V dc out	200mA max.	
34	Auxiliary (Guard Locked)	Guard locked signal +24V dc out	200mA max.	
S+	Unlocked	Unlock signal apply +24V dc	500mA max.	

REAR ESCAPE:



CONNECTION DIAGRAM:

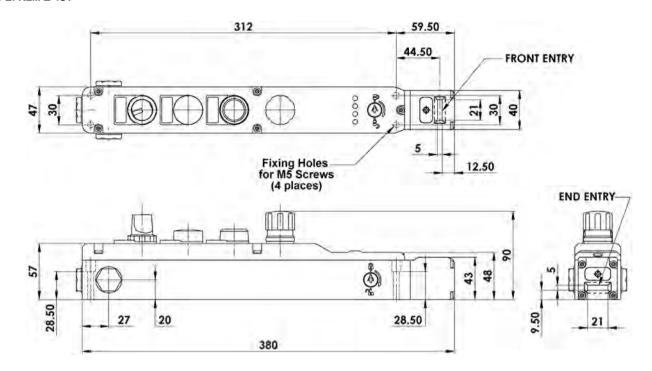


ORDERING:

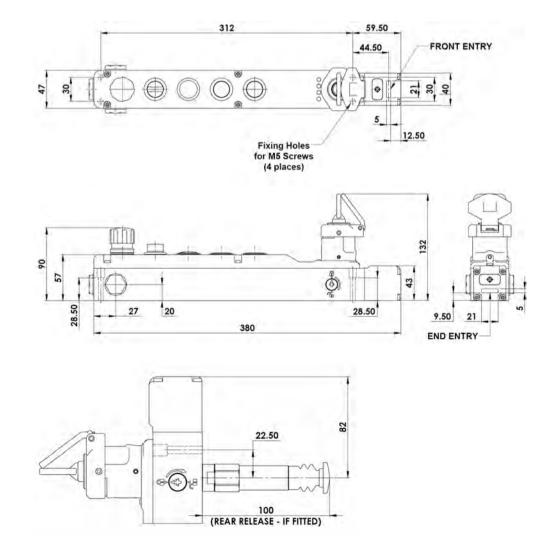
KLM-Z-SKR-5ST (Configuration Descriptor)	With Side Manual Release			Without Side Manual Release		
	M20	1/2" NPT	M12-QC	M20	1/2" NPT	QC-M12
Standard (KLM-Z-SKR-5ST)	457004	457005	457006	457304	457305	457306
Rear Release (KLM-7-SKR-5ST-RR)	457014	457015	457016	457314	457315	457316



TYPE: KLM-Z-4ST



TYPE: KLM-Z-5ST



Pilot Devices for UGB-KLT and KLM-Z-ST Models

22mm ACCESSORIES FOR UGB-KLT, KLM-Z-4ST & 5ST (to be ordered separately):

	SALES NUMBER	CONTACTS or VOLTAGE	DESCRIPTION	ELECTRICAL
Ch. Ch.	522201	2NC	Compact Stop, Twist to Reset, Red 30mm Mushroom Head	
	522202	1NC 1NO	Compact Stop, Twist to Reset, Red 30mm Mushroom Head	
Como Maria	522203	2NC	Compact Stop, Twist to Reset, Red 30mm Mushroom Head with Reset Key	AC-15
	522204	1NC 1NO	Compact Stop, Twist to Reset, Red 30mm Mushroom Head with Reset Key	120Vac 1.5A 240Vac 1.0A
	522205	2NC	Compact Stop, Twist to Reset, Red 40mm Mushroom Head	DC-13
	522206	1NC 1NO	Compact Stop, Twist to Reset, Red 40mm Mushroom Head	24Vdc 0.3A 125Vdc 0.2A
	522207	2NC	Compact Stop, Twist to Reset, Red 40mm Mushroom Head with Reset key	
and the same	522208	1NC 1NO	Compact Stop, Twist to Reset, Red 40mm Mushroom Head with Reset key	
1	522209	2NC	Compact Illuminated Stop, Twist to Reset, Red 32mm Mushroom Head with plug-in Spade Terminals (2.8 x 0.5mm), RED LAMP (5-30Vdc).	AC-15 120Vac 3A 24Vac 1.5A
	522210	1NC 1NO	Compact Illuminated Stop, Twist to Reset, Red 32mm Mushroom Head with plug-in Spade Terminals (2.8 x 0.5mm), RED LAMP (5-30Vdc).	DC-13 24Vdc 3A 250Vdc 0.27A
(28)	522251	1NC 1NO	Compact 2 Positions Plastic Selector Switch	
100	522252	2NC	Compact 2 Positions Plastic Selector Switch	
	522301	1NC 1NO	Compact Push Button Momentary - RED	
-10	522302	1NC 1NO	Compact Push Button Momentary - GREEN	AC-15
	522303	1NC 1NO	Compact Push Button Momentary - YELLOW	120Vac 1.5A 240Vac 1.0A
	522304	1NC 1NO	Compact Push Button Momentary - BLUE	
	522305	1NC 1NO	Compact Push Button Momentary - WHITE	DC-13
	522310	2NC	Compact Push Button Momentary - RED	24Vdc 0.3A 125Vdc 0.2A
	522311	2NC	Compact Push Button Momentary - GREEN	
	522312	2NC	Compact Push Button Momentary - YELLOW	
	522313	2NC	Compact Push Button Momentary - BLUE	
	522314	2NC	Compact Push Button Momentary - WHITE	
	522321	1NO	Compact Illuminated Push Button Momentary - RED (Lamp 24V ac/dc)	
	522322	1NO	Compact Illuminated Push Button Momentary - GREEN (Lamp 24V ac/dc)	
	522323	1NO	Compact Illuminated Push Button Momentary - YELLOW (Lamp 24V ac/dc)	
	522324	1NO	Compact Illuminated Push Button Momentary - BLUE (Lamp 24V ac/dc)	
	522325	1NO	Compact Illuminated Push Button Momentary - CLEAR (Lamp 24V ac/dc)	
	522401	24V ac/dc	Pilot Light LED - YELLOW	
	522402	24V ac/dc	Pilot Light LED - RED	
	522403	24V ac/dc	Pilot Light LED - GREEN	
and o	522404	24V ac/dc	Pilot Light LED - BLUE	
	522405	24V ac/dc	Pilot Light LED - CLEAR	
0	522451		Legend Holder for use with 22 mm Devices	
	522452		Blanking Plug for sealing unused 22mm holes	