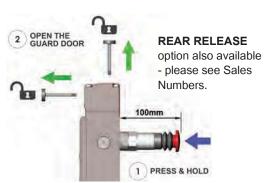
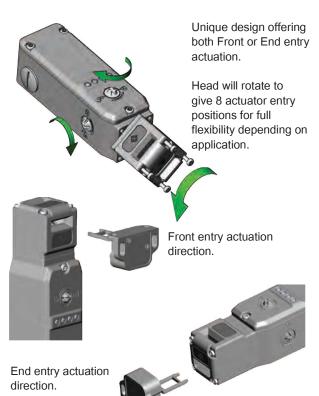
RFID Guard Locking Switch S/Steel: PARSALOCK KL3-SS-Z

FEATURES:







Solenoid Locking Interlock Safety Switch featuring RFID Interlocking

The KL3-SS-Z Series Guard Locking switches have been designed to incorporate high anti-tamper RFID coding and provide PLe safety levels to ISO13849-1.

The RFID sensing is complemented by a traditional cam locking system which has been developed with a holding Force of 3000N to keep guard doors closed until hazards have been removed.

Unique rotating head to offer both Front and End actuation.

32 million RFID codes - each switch unique - high coding to ISO14119.

The fully Stainless Steel 316 enclosure has IP69K ingress protection which is maintained by a double seal lid gasket design.

They have a slim profile and are designed to fit on 50mm (2in) frame sections or to applications where space is restricted and the head will rotate to provide up to 8 actuator entry positions and includes front and end entry sensing.

Can be high pressure hosed at high temperature with detergent.

Choice of standard or flexible actuators.

M12 Quick connect version available.

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

Standards: IEC60947-5-3 ISO14119 ISO13849-1 IEC62061 UL 60947-5-1

Safety Classification and Reliability Data: Supply Voltage Power Consumption

Safety Circuits (11-12, 21-22) Auxiliary Circuits (34 and 44) Rated Insulation Voltage

Holding Force (ISO14119) Actuator insertion distance for assured locking Sao Sar (RFID sensing) Operating Frequency

Actuator entry minimum radius **Body Material** Head Material Actuator Material Enclosure Protection Operating Temperature Mechanical Life Expectancy Vibration

24Vdc (+/- 10%)

R+ (50mA Max.) S+ (500mA Max) (Solenoid) 24V 0.2A 24Vdc 0.2A Max. output current 500VAC F1 Max 3000N Fzh 2307N 5mm Sao 10mm Sar 20mm 175mm Standard 100mm Flexible Stainless Steel 316 Stainless Steel 316 Stainless Steel 316 IP67/IP69K -25C to +40C 2.5 x 10⁶ 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 SIL 3

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

Proof Test Interval T₁

Charateristic data according to EN ISO13849-1

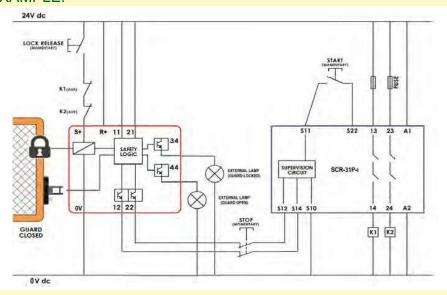
Performance Level

If both channels are used in conjunction with a SIL 3/PLe control device.

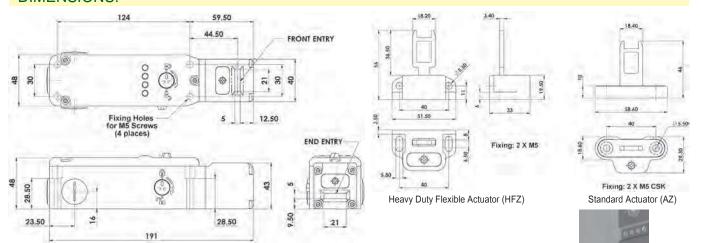
Category Cat 4 1100a Diagnostic Coverage DC 99% (high)

RFID Guard Locking Switch S/Steel: PARSALOCK KL3-SS-Z

CONNECTION EXAMPLE:



DIMENSIONS:



2 0 1		
		0
4 6	-	~

FEMALE QC LEADS	LENGTH	SALES NUMBER
M12 8 Way	5m (15ft)	140101
M12 8 Way	10m (30ft)	140102

Quick Connect (QC) M12 8 Way Male Plug Pin View from Switch	Terminal	Function	Switch Circuit	Rating	
2	R+	24V dc	Supply 24V dc	50mA max.	
3	0V	0V dc	Supply 24V dc (Ground)	Sum Amax.	
7	11	Safety Input 1	Cofety Circuit 4	200 1	
1	12	Safety Output 1	Safety Circuit 1	200mA max.	
4	21	Safety Input 2	Sofoty Circuit 2	200mA may	
6	22	Safety Output 2	Safety Circuit 2	200mA max.	
8	44	Auxiliary (Guard Open)	Guard open signal +24V dc out	200mA max.	
N/A	34	Auxiliary (Guard Locked)	Guard locked signal +24V dc out	200mA max.	
5	S+	Unlocked	Unlock signal apply +24V dc	500mA max.	

LID AND SIDE

LED 1	G	uard 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 O	utput
Safety Outputs On	Green
Safety Outputs Off	Off

LED 4 Solen	oid
Solenoid Energised	Red
Solenoid De-energised	Off

Manual Release Key (order separately - not supplied with switches)

Sales Number: 140123



-		
0		
- 70	1	
- 1	100	30
- 1		
	11/2	70

65	

Sales Nulliber: 140123			
SALES NUMBERS	M20	1/2" NPT	QC M12
KL3-SS-Z Switch with Standard Actuator	456001AZ	456002AZ	456003AZ
KL3-SS-Z Switch with Heavy Duty Flexible Actuator	456001HFZ	456002HFZ	456003HFZ
REAR RELEASE OPTION SALES NUMBERS			
KL3-SS-Z-RR Switch with Standard Actuator	456011AZ	456012AZ	456013AZ



M20	1/2" NPT	QC M12
456401AZ	456402AZ	456403AZ
456401HFZ	456402HFZ	456403HFZ
456411Δ7	456412Δ7	456413Δ7



SALES NUMBERS	M20	1/2" NPT	QC M12	M20	1/2" NPT	QC M12	M20	1/2" NPT	QC M12
KL3-SS-Z Switch with Standard Actuator	456001AZ	456002AZ	456003AZ	456401AZ	456402AZ	456403AZ	456301AZ	456302AZ	456303AZ
KL3-SS-Z Switch with Heavy Duty Flexible Actuator	456001HFZ	456002HFZ	456003HFZ	456401HFZ	456402HFZ	456403HFZ	456301HFZ	456302HFZ	456303HFZ
REAR RELEASE OPTION SALES NUMBERS									
KL3-SS-Z-RR Switch with Standard Actuator	456011AZ	456012AZ	456013AZ	456411AZ	456412AZ	456413AZ	456311AZ	456312AZ	456313AZ
KL3-SS-Z-RR Switch with Heavy Duty Flexible Actuator	456011HFZ	456012HFZ	456013HFZ	456411HFZ	456412HFZ	456413HFZ	456311HFZ	456312HFZ	456313HFZ