

Z-Range with OSSD Stainless Steel: KL3-SS-Z-P2L

FEATURES:

IP69K



Unique design offering both Front or End entry actuation.

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



Front entry actuation direction.

End entry actuation direction.



Power to Lock Guard Locking Switches: RFID-Coded with OSSD Outputs for CAT4, SIL3, PLe Safety in Accordance with the Latest International Safety Standards.

The KL3-SS-Z-P2L Series Guard Locking switches feature an RFID-coded sensor and OSSD outputs, ensuring reliable safety and security. These switches have a rugged 316 stainless steel body design, developed with a holding force of 3000N to keep medium to large guard doors securely closed until hazards have been removed.

They operate on a **Power to Lock** - Spring to Unlock mechanism, making them suitable for applications where immediate unlocking is necessary upon removal or loss of power. (Note: They are not suitable for machines with a running down time.)

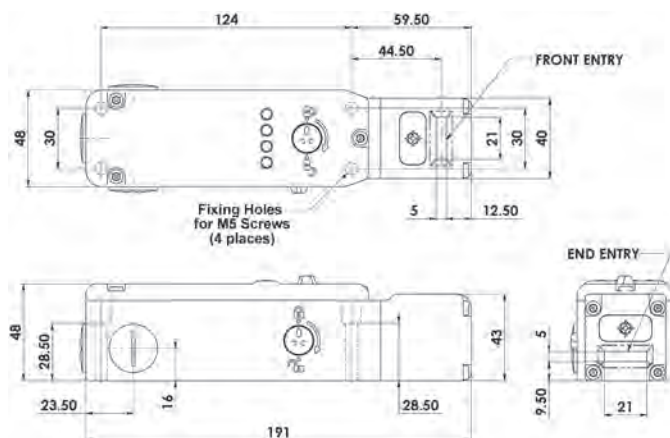
The 316 grade stainless steel has a high resistance to chemicals and washdown solutions, while providing a robust interlocking solution. The robust design can withstand high levels of shock, making it ideal for exposed areas of machine guarding.

IP69K enclosure protection is ensured by a double seal lid gasket design and metal fixings, maintaining durability in demanding environments. With a slim profile, these switches are designed to fit on 50mm (2") frame sections or in applications where space is limited. Additionally, the head rotates to provide up to 8 actuator entry positions.

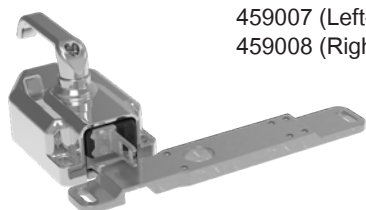
TECHNICAL SPECIFICATIONS:

Technical Specification	
Standards	IEC60947-5-3, ISO14119, ISO13849-1, IEC62061
Supply Voltage	24VDC (-15% / +10%)
Power Consumption	50mA (no load) 500mA peak (solenoid energised)
Safety Outputs	24VDC, 0.2A
Auxiliary Outputs	24VDC, 0.1A
Rated Insulation Voltage	500VAC
Holding Force (ISO14119)	F1 Max 3000N
Operating Frequency	1Hz
Material	Stainless Steel 316
Enclosure Protection	IP67 IP69K
Operating Temperature	-25C to +40C
Mechanical Life Expectancy	2.5 x 10 ⁶ cycles
Vibration and Shock are tested to IEC 60068-2-6 and -2-27	IEC88-2-6, 10-55Hz + 1Hz Excursion 0.35mm 1 octave/min

DIMENSIONS:



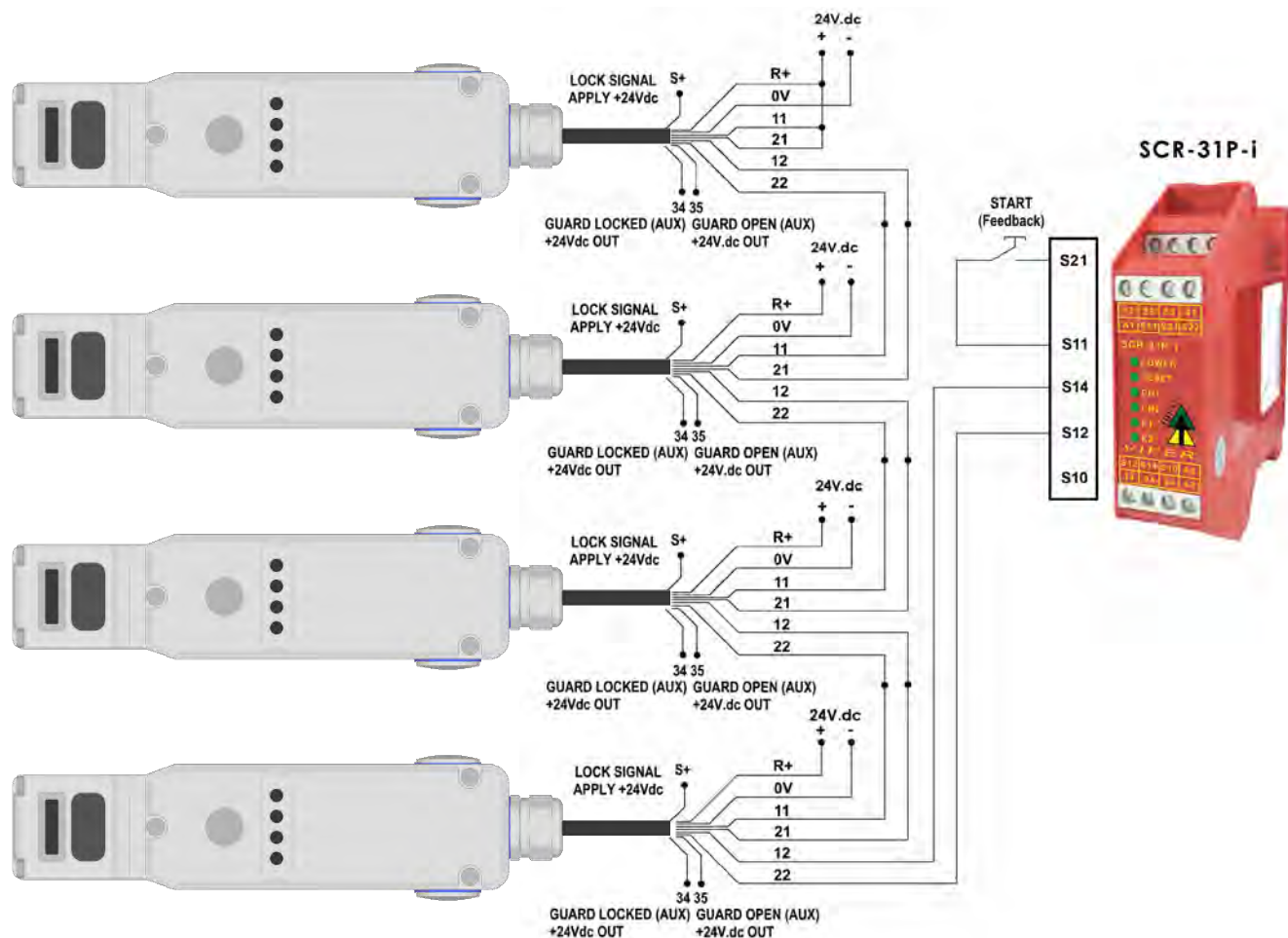
COMPATIBLE ACCESSORIES:



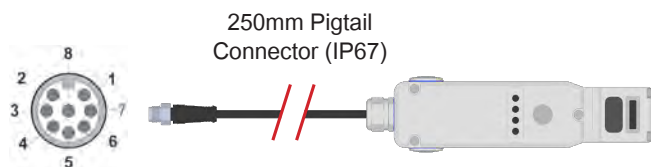
459007 (Left-Hand)
459008 (Right-hand)

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CONNECTION DIAGRAM:



CONNECTIVITY:



Quick Connect (QC) M12 8 Way Male	Terminal	Function	Switch Circuit
2	R+	24V dc	Supply 24V dc
3	0V	0V dc	Supply 0V 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 unlocked signal +24V dc out
5	S+	Lock	Lock signal apply +24V dc

INDICATION:



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

ORDERING:

Part Number	Description	Material
456021AZ	KL3-SS-Z-P2L M20 - Std Actuator	316 S/Steel
456021HFZ	KL3-SS-Z-P2L M20 - Heavy Duty Actuator	316 S/Steel
456021AZ	KL3-SS-Z-P2L 1/2" NPT - Std Actuator	316 S/Steel
456021HFZ	KL3-SS-Z-P2L 1/2" NPT - Heavy Duty Actuator	316 S/Steel
456021AZ	KL3-SS-Z-P2L QC-M12 - Std Actuator	316 S/Steel
456021HFZ	KL3-SS-Z-P2L QC-M12 - Heavy Duty Actuator	316 S/Steel



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