GKR/GKL Series

Dual Entry Solenoid Key Operated Safety Interlock Switch

FEATURES

- Solenoid power to lock or power to unlock
- Side or top key entry
- Separate switches for key position and solenoid status
- Available with two 1 NC/1 NO snap action, two 3 NC/ 1 NO contact blocks
- 100 mm / 3.94 in x 100 mm / 3.94 in mounting
- Choice of four heavy duty keys
- Key retain force 1000 N max.
- IP 68 (NEMA 6P)
- Two solenoid voltages available
- Dual LEDs
- UL listed / CSA certified / CE compliant
- Red body colour
- Connectorised versions available upon request
- Fluorocarbon sealed enclosure available

BENEFITS

- Allows up to eight different key entry positions
- Flexibility of design
- Switch configuration exactly matches need
- Standard mounting centres
- Key mounting flexibility and security
- Suitable for harsh duty environments
- Operates at standard control voltage
- Use this product anywhere in the world
- Immediately recognisable in the application as a safety component

TYPICAL APPLICATIONS

- Automotive factory floor
- Machine tools sliding doors
- Metalworking machines sliding or hinged doors
- Special purpose machinery cage guarded sliding or hinged doors
- Robotics assembly cells cage guarded sliding or hinged doors
- Plastic moulding machines sliding doors

(Pending)

The GKR (head to the right) and GKL (head to the left) products offer the user an unrivalled range of standard options.

The GKR/GKL product is a key actuated device incorporating a key trapping mechanism. The switch is used on machinery where instant stop and access to the machinery is either impossible (due to the momentum of the machine) or impractical (due to tool or machine damage or scrapped product if the current machine cycle is interrupted).

The switch incorporates a manual override feature which allows removal of the key for emergency access.

A safety lockout device is also available for use with the GKR/GKL Series. The lockout device (GKZL2) is specifically designed to prevent a key from being inserted either manually, or by the access door being closed while maintenance personnel are working on the machine. When inserted, the lockout device can accommodate up to four padlocks to prevent unauthorised removal of the device.

⚠ WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet (or catalogue) is for reference only. DO NOT USE this document as system installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

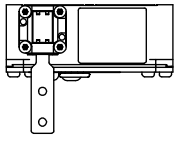
GKR/GKL - Dual Entry Solenoid Key Operated Safety Interlock

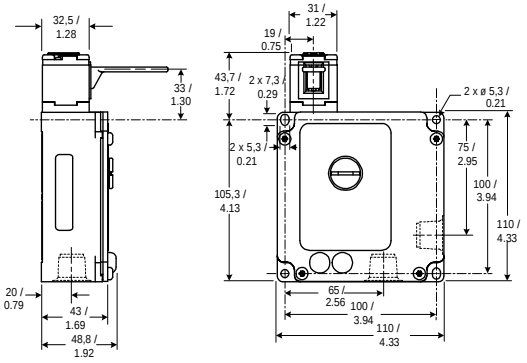
Technical data

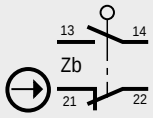
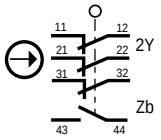
Mechanical life	Up to 1 million operations
Degree of protection	IP 68 NEMA/UL Type 1,4, 6P, 12, 13
Temperature range	*Operating:* -25 °C to 40 °C / -13 °F to 104 °F
Approvals*	IEC 60947-5-1 EN 60947-5-1 ac15 A300/A600 dc13 Q300 UL Listed CSA Certified
Operating forces:	Insertion force: 35 N / 8 lb Extraction force: 28 N / 6 lb Max. solenoid locking force: 1000 N / 224 lb
Directives	The forced disconnect mechanism on normally closed contacts conforms to IEC 60947-5-1-3.
Compliance	This product complies with the Machinery Directive 98/37/EC and complies with EN 60947-5-1.

* See Standards (page 179)

Dimensions in mm / in





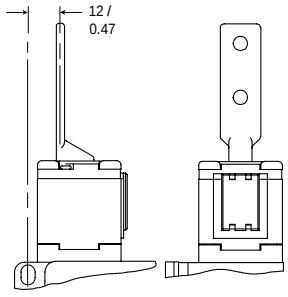
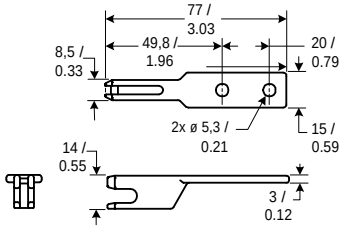
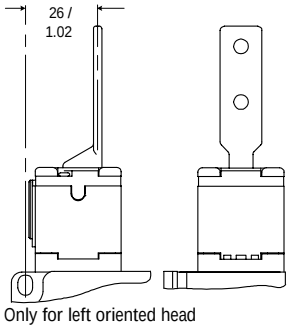
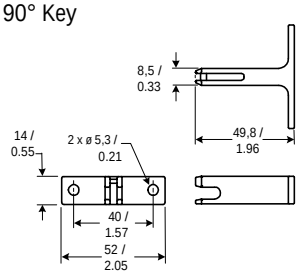
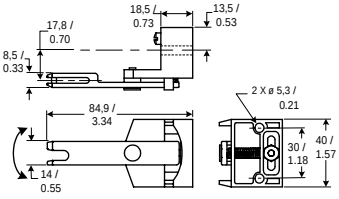
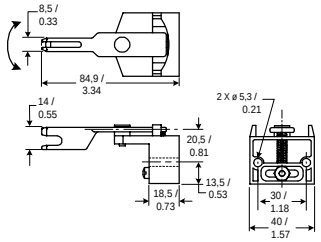
Switch Type	
Slow Acting, 1 Normally Closed/1 Normally Open **Gate and Solenoid Monitor** 	**3**
Slow Acting 3 Normally Closed/1 Normally Open **Gate and Solenoid Monitor** 	**36**

Head Left or Right		**Conduit Thread**	
Head on Left =	**L**	**E**	= 1/2" NPT
Head on Right =	**R**	**G**	= 20 mm

Switch Ordering:

GK	**X**	**X**		**X** OR **XX**

Example: GKLE36PXA2 + GKZ56

	Head Orientation	Latching Mechanism	Solenoid and LED Indicator Voltage	Key Type (sold separately)
	 **M** Only for right oriented head	Mechanical Latch **A** (Energise solenoid to release key)	24 Vdc **2**	Straight Key  **6** Door swing radius down to 250 mm / 9.84 in
	 **P** Only for left oriented head			90° Key  **7** Door swing radius down to 250 mm / 9.84 in
		Solenoid Latch **S** (De-energise solenoid to release key)	120 Vac **4**	Spring-loaded Key: Up/Down  **8** Door swing radius down to 150 mm / 5.9 in
				Spring-loaded Key: Left/Right  **9** Door swing radius down to 150 mm / 5.9 in

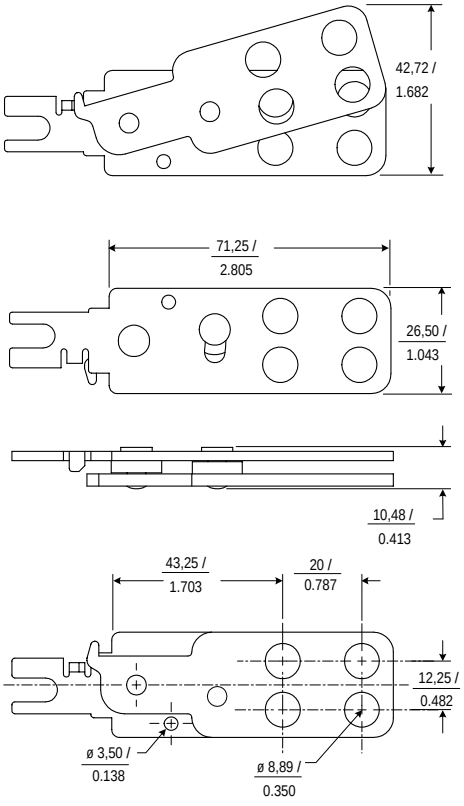
Key Ordering:

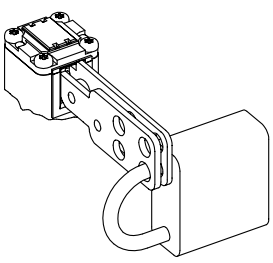
X **X** **X** + **GKZ5** **X**

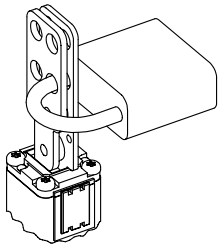
Accessories

The GKZL2 lockout device is for use with both the GK and GKR/GKL Series Dual Entry Head products. The lockout device does not activate the switch. It is designed to prevent a key from being inserted either manually, or by the access door being closed while maintenance personnel are working on the machine. When inserted, the lockout device accomodates up to four padlocks to prevent unauthorised removal of the device

Mounting dimensional diagram (mm/in):







Ordering:

GKZL2