

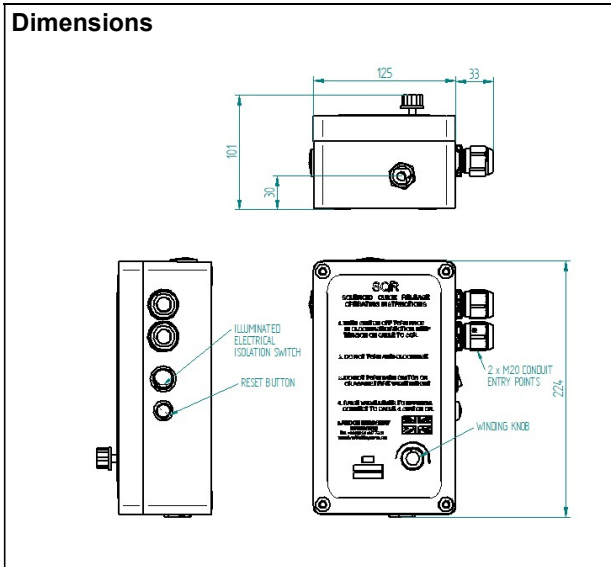
SOLENOID QUICK RELEASE MK III

The Solenoid Quick Release Mechanism (SQR) MK III is designed to provide a simple electro-mechanical release mechanism for gravity-operated devices such as the Landon Kingsway free-fall fire valve.

The system consists of a steel cable wound around a drum with a solenoid arranged so that when energised, the drum is locked in place. If the electrical supply to the solenoid is interrupted, either from loss of power or switch wire break, then the solenoid latch releases the drum, and the weight of the attached load causes the cable to unwind.

The 24vDC version of the MKIII SQR can be used in series with battery back up panel 40902609 to prevent uninterruptions on the system.

The Mark III version incorporates a safe power supply whereby the power to the external switch is cut if there is an emergency. The unit also provides normally open and normally closed volt free contacts for BMS or controlling other devices. The system also provides a 24vDC output if the device has released for connecting to an alarm.



INSTALLATION

The mechanism should be securely fastened directly in line with the load to be operated such that the cable follows an uninterrupted path from the mechanism. The length of the cable should be checked and needs to be long enough to allow the load to fall to its lowest level. If necessary, the cable can be extended provided that any joins in the cable do not enter the unit when the load is raised. Electrical installation should only be performed by competent persons in accordance with the connection diagram.

Technical Specification

Supply Voltage

| | |
|----------|----------------|
| 10901007 | 110 -230v/50Hz |
| 10901008 | 24vDC |

Power

20w

Switched Supply

8A Max

Enclosure

Red painted cast aluminium

Dimensions

224 x 158 x 101mm (H,W,D)

Fixing Centres

205 x 82mm Ø6mm

Weight

3.6 kg

Maximum load

13.6 kg (30 lbs)

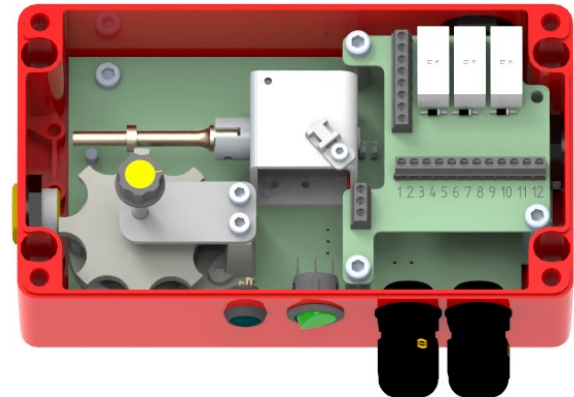
External Alarm Supply

24vDC

Electrical Terminal Connections

- 1 Earth
- 2 Neutral for AC or Negative (-) for 24vDC
- 3 Live for AC or Positive (+) for 24vDC
- 4,5 Sensor/ Switch (Loop out if not used)
- 5,6 24vDC Alarm Output (4 Positive)
- 10,11 Volt Free output NC
- 11,12 Volt Free Output NO

Unit Shown below with Cover removed.



OPERATION

The unit has an illuminated on-off isolation switch on the right side of the case and a momentary switch on the right side of the case which is used to reset the latch.

With the electrical isolation switch on and illuminated lift the load into the 'normal' position and while keeping the cable under tension, wind in the cable by turning the knob on the unit in a clockwise direction. **Do not turn in an anticlockwise** direction or try to lift the weight of the fire valve by turning the knob as this will damage the unit. Press the reset button switch and latch the system. The solenoid will 'click' and latch the cable drum.

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SYSTEM EXAMPLE

