

# HAZARDOUS LOCATIONS

## EXPLOSION PROOF HIGH AND LOW LIMIT CONTROLS HZLIM SERIES



### DESCRIPTION

The **Kele HZLIM Series explosion proof high and low limit controls** are field-assembled combinations of industry standard controls, heavy duty explosion proof enclosures, and seals for use in atmospheres that may contain hazardous gases or dusts (Groups B, C, D, E, F).

The **HZLIM-LO-A** includes the ultra reliable A11A-1 manual reset low limit control, a **XJA7514C2M2M** explosion proof enclosure, two EYM-75 conduit seals, and an ACK6F fiber/cement kit.

The **HZLIM-LO-B** is identical to the **HZLIM-LO-A** but includes the equally reliable A11B-1 automatic reset low limit control instead of the A11A-1.

The **HZLIM-HI** is also identical to the **HZLIM-LO-A** but includes the time proven A70KA-1 manual reset high limit control in place of the A11A-1.



HZLIM Series

### FEATURES

- **Class I Division 1 Groups B, C, D**
- **Class II Division 1 Groups E, F, G**
- **NEMA 7BCD, 9EFG**
- **Long life, snap acting contacts**
- **Easy set point adjust**
- **Freeze protection for hazardous locations**
- **Code required AHU high limit protection for hazardous locations**

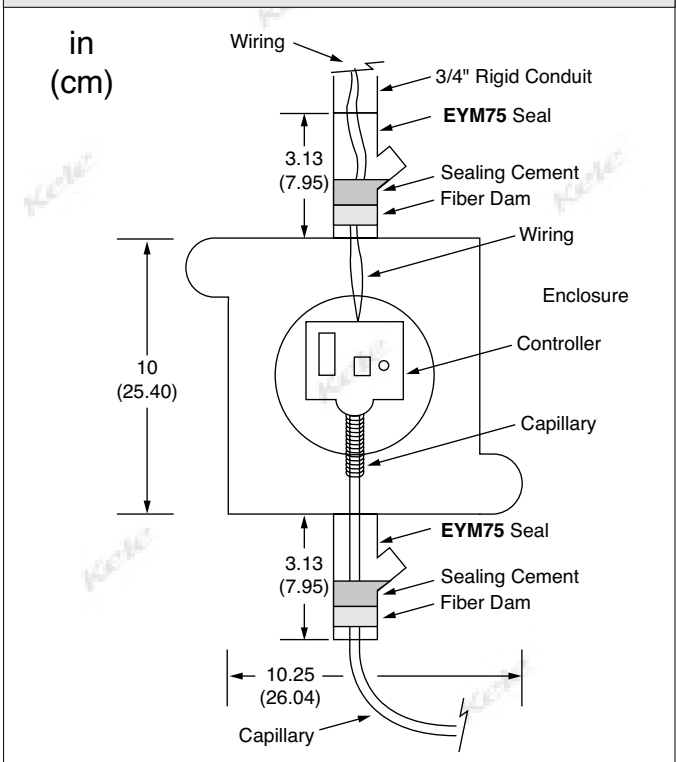
### SPECIFICATIONS

Refer to the A70 and A11 Series in the Thermostats and Controllers section for specifications, capillary, installation and wiring information.

**CAUTION:** Conduit seal **MUST** be installed within code-required distance from junction box to maintain explosion proof rating. For Group B and C atmospheres, conduit seals must be installed within 2" (5.08 cm) of the enclosure regardless of less stringent code requirements.

**WARNING:** All circuits **MUST** be de-energized before opening the cover of this device for any purpose, including resetting a manual reset controller or adjusting a set point. If work must be performed with an energized circuit, the atmosphere inside and outside the enclosure must be proven safe with a listed intrinsically safe combustible gas detector.

### DIMENSIONS





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### INSTALLATION / MOUNTING

#### OPERATION

Install the XJATS14C2M2N1 enclosure, included with each kit, in its intended location. Install the two EYM75 conduit seals in the two tapped holes of the XJATS14C2M2N1 enclosure, making sure to engage a minimum of five full threads. Also be sure that the plugs on the conduit seals are both facing up and to the front (cement will be poured into them later). The male nipple, supplied with fittings, can be easily removed and replaced in the opposite side for proper orientation.

Unpack the A11 or A70 controller, and fully uncoil the capillary tubing. Place plastic bushings in both openings inside the enclosure and also in the bottom of the lower conduit seal. Gently feed the end of the capillary (or capillary and bulb) through the bottom opening and conduit seal from inside the XJATS14C2M2N1 enclosure, taking care not to nick or kink the capillary. Once the end is out, slowly feed the rest of the capillary fully through to the outside of the conduit seal. Use an assistant, if needed, to make sure that the inner and outer plastic bushings stay in place to protect the capillary from damage. Once this is accomplished, mount the A11 or A70 controller to the panel inside the enclosure. Install the capillary (or capillary and bulb) on the equipment according to the included instructions. Install rigid conduit and wiring as required by code from the upper conduit seal, engaging a minimum of five full threads at each joint. Only individual insulated conductors may pass through the conduit seal. If jacketed cable is used, the jacket must be stripped back beyond the seal or else a listed cable seal must be applied within the enclosure. Remove the plugs from the two conduit seals. Make sure that the wires and capillary are centered in the seals. Then install fiber dams and sealing compound in each according to the included instructions (minimum 0.75"/2 cm cement depth), and replace the plugs. Adjust the setpoint on the controller, install the cover for the XJATS14C2M2N1 enclosure, and tighten securely.

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### ORDERING INFORMATION

MODEL	DESCRIPTION
<b>HZLIM-HI</b>	Kit with one A70KA-1 manual reset high limit control, one XJATS14C2M2N1 enclosure, two EYM75 conduit seals, three plastic conduit bushings, and one ACK6F sealing kit Weight: 26.9 lb (12.2 kg)
<b>HZLIM-LO-A</b>	Kit with one A11A-1 manual reset low limit control, one XJATS14C2M2N1 enclosure, two EYM75 conduit seals, three plastic conduit bushings, and one ACK6F sealing kit Weight: 25.7 lb (11.7 kg)
<b>HZLIM-LO-B</b>	Kit with one A11B-1 automatic reset low limit control, one XJATS14C2M2N1 enclosure, two EYM75 conduit seals, three plastic conduit bushings, and one ACK6F sealing kit Weight: 25.7 lb (11.7 kg)

#### RELATED PRODUCTS

<b>ACK6F</b>	Cement: 1.9 lb * (0.85kg) Fiber: 0.3 lb (0.19 kg), 25 cu in (410 cu cm) volume when set * Consists of five 0.4 lb (0.19 kkg) cement pouches
<b>EYM-75</b>	3/4" size, 1.19" turning radius, 2 oz Kwiko cement required, Malleable Iron construction