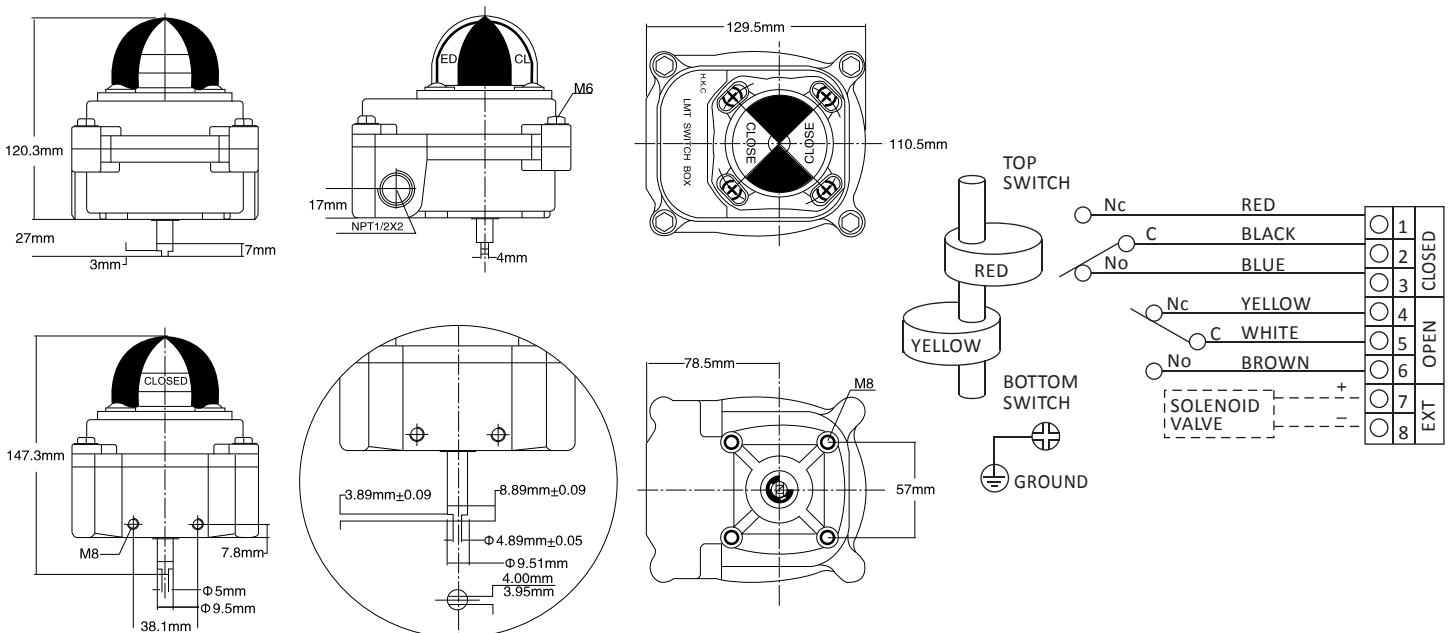


CONSTRUCTION & FEATURES

- **Visual Position Indicator**
Waterproof polycarbonate
Open-Yellow, Close-Red
- **Name Plate**
- **Housing Cover**
Aluminum die-casting
- **Captive Bolts**
Stainless Steel
- **Switches**
2 x SPDT 5A 125-250VAC micro-switches
- **Quick Set Cam**
Spring loaded splined cam
No need to adjust again after initial setting
Easy setting without tools
Easy to set splined cam without tools
- **Terminal Strip**
Standard 8 points
- **Dual Cable Entries**
2 x 1/2" NPT
- **Easy Mounting**
NAMUR standard stainless steel shaft and bracket



DIMENSIONS AND WIRING DIAGRAM



INSTALLATION, OPERATION AND MAINTENANCE

LIMIT SWITCH ADJUSTMENT

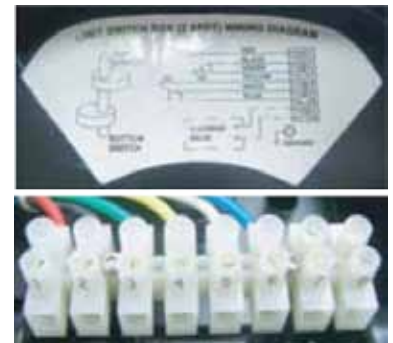
1. Loosen the limit switch box cover screws and remove the cover.
2. Rotate the actuator to the full counterclockwise position. This should put the valve in the fully open or closed position.
3. Lift up the bottom cam and turn until the switch clicks (this is the active position) then release the cam. Verify that the cam has been reengaged on the splined retainer. The spring will maintain the cam engagement.
4. Rotate the actuator to the full clockwise position. Then valve should now be either fully closed or open. Make note of the valve position.
5. Push down on the top cam and turn until the switch clicks (this is the active position) then release the cam. Verify that the cam has been reengaged on the splined retainer. The spring will maintain the cam engagement.
6. Align the top indicator to match to the current valve position, place the cover back on the limit switch and tighten.

- Take care that the housing o-ring is properly located and the seal groove.
- Keep the cover tightened down while the circuits are live.
- Disconnect the supply circuits before opening.



ELECTRICAL WIRING

1. Disconnect the supply circuit, then remove the top cover.
 2. Remove the protection plugs from the conduit entries and install conduit or plugs suitable for the type of protection required.
 3. Engage the wires in the terminal strip using a small screwdriver.
- All connections are made at the number terminal strip. A wiring diagram is located inside the cover and indicates what terminal numbers correspond to the switch contacts: normally open, normally closed, common, etc. Simply follow the wiring diagram and electric code to connect the switches to your system.
 - Solenoids may also be wired through the switch box. At least two auxiliary terminals are included as an option. A ground screw is also included. Simply wire the solenoid to the auxiliary terminals, and then connect power leads to the opposite terminal side.
 - Be sure to properly ground the solenoid at the provided ground terminal.
 - The ALS-100 switch box includes two 1/2" NPT conduit entries. Be sure to follow the National Electric Code regulations for rigid conduit, flexible conduit or cable systems as applicable.



INDICATOR SETTING

1. Remove the four screws and remove the indicator cover.
 2. Lift up the indicator from the cover.
 3. Set the indicator back on the cover according to valve position.
 4. Replace the indicator cover and fasten with cover screws. Check to ensure that the position indicator o-ring is properly located in the seal groove.
- Use only a wet cloth when cleaning the indicator.
 - Indicators are easily adjusted to match the dome's clear windows or the special rotor angle indicator, such as 45°, 60° or 3 way indicator. Simply loosen the four screws to adjust the indicator. Make sure the dome window lines up with the rotor quadrants. Finally, tighten the screws to ensure a good seal.

