

Mounting Instruction

*Indi*Top



1. Mounting Instructions

Fix the magnet on top of the actuator



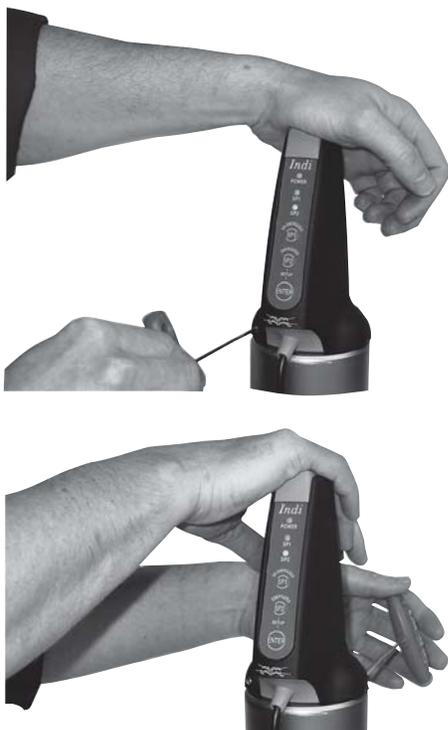
2. Mounting Instructions

Fit **IndiTop** over the magnet and the "mushrooms" - front opposite air fitting



3. Mounting Instructions

Carefully fix **IndiTop** with the two allen screws (max. torque 2,5 Nm), while pressing down.



4. Mounting Instructions

Connect wires as below:

- Red: +/L1 (\simeq), 8-30V DC/AC
- Black: -/N (\simeq)
- Green: SP1 (De-energized)
- Yellow: SP2 (Energized)
- Brown: PNP (+ or L1)/NPN (- or N)
- Orange: Remote setup bit (**If not used, connect to +/L1**)

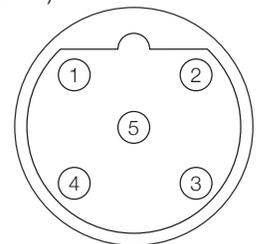
Note:

Switch between PNP/NPN by connecting the brown wire to either +/L1 (PNP) or -/N (NPN)

Plug Version:

Pin connections

- 1: -/N (\simeq)
- 2: SP2 (Energized)
- 3: SP1 (De-energized)
- 4: +/L1 (\simeq), 8-30V DC/AC
- 5: Remote setup bit (if not used, connect to +/L1 (pin4))



1. Setting up *IndiTop* (push button)

To enter SETUP press and hold "SP2" + "Enter" until the blue LED starts to flash (3 seconds)



2. Setting up *IndiTop* (push button)

Clear previous saved positions by pressing "Enter" until all the LED's have turned ON in a sequence (blue-green-yellow) and flashed once (3 seconds)



3. Setting up *IndiTop* (push button)

De-energize the valve and save the 1st Set Point "SP1" (de-energized) by pressing the "SP1" button until "SP1" LED becomes steady ON (3 seconds)

Set point 1 (SP1) is intended to be the return position of the valve in case of a power breakdown, i.e. **de-energized**.



4. Setting up *IndiTop* (push button)

Energize the valve and save the 2nd Set Point "SP2" (energized) by pressing the "SP2" button until "SP2" LED becomes steady ON (3 seconds)

Set point 2 (SP2) is intended to be the opposite of SP1, i.e. **energized**.



5. Setting up *IndiTop* (push button)

To exit SETUP press and hold "SP2" + "Enter" until the blue LED becomes steady (3 seconds)



6. Setting up *IndiTop* (push button)

Verify the saved positions by energizing/de-energizing the valve and see if the correct LED is lit (SP1 = de-energized, SP2 = energized)

Technical Data

Protection Class

IP66/67

Power Supply

IndiTop is designed to be a part of the PLC's Input/Output (I/O) system. It should be supplied from the same protected power supply as the other I/O devices. The unit is reverse polarity and short circuit protected. The power supply must meet the requirements of EN 61131-2.

Supply voltage:8 - 30 V DC/AC
Supply voltage nominal:24 V DC/AC (RMS) (-15%/
+20% as per EN 61131-2:2003)
Max. ripple:5% of nominal supply voltage
Supply voltage absolute max:30 V DC/AC
Supply voltage absolute min.:8 V DC/AC
Supply current*):Max. 45 mA

*) The initial current during power-on is higher. The actual shape of the current pulse depends on the power supply used. Typical values are 150mA RMS during 13 ms (regulated PS) to 360 mA RMS during 8 ms (unregulated PS).

The fulfilling of the UL requirements in UL508 requires that the unit is supplied by an isolating source complying with the requirements for class 2 power units (UL1310) or class 2 and 3 transformers (UL1585).

Feedback Signals

Output signals from the sensor unit to the connected digital interface (PLC).

Nominal voltage: Same as supply voltage.
Load current:..... 50 mA typically, 100 mA max.
Voltage drop:..... Typically 3 V at 100 mA

7. Setting up *IndiTop* (Remote)

The sequence in the flow chart shown must be followed in the programming to do a successful remote setup.

Note 1

The remote setup can be done in two ways: Either by a simple PLC program or by manual bit (tag) control.

In both cases, the flow chart must be followed to ensure the right feedback.

Note 2

The "Remote Setup Bit" must always be connected to +/L1 if the remote setup feature is not used.

