

F500-IP

Position Indicator





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GENERAL DESCRIPTION

The F500-IP Position Indicator has a lightweight and compact design, allowing a quick installation without interfering with the functionality of the set or even the valve. The main function is to indicate the Open or Closed positions of the pneumatic actuator or valve (adaptation being necessary). It has several power and current options, and together with it, there is an adjustable mounting bracket for an actuator in the ISO 5211 standard.

APPLICATION

The F500-IP Position Indicator is intended for rotary pneumatic actuators that follow the NAMUR coupling standard. It has several forms of contacts, but the most common in the Brazilian companies is through mechanical or inductive contacts. This type of indicator is extremely important in the signaling and control of automated valves, making its local and remote visualization noticeable. In the case of remote visualization, we are talking about a digital electrical signal that, when arriving at a PLC, can be treated and indicated in the supervisory.

MAIN APPLICATIONS

- Sugar and Alcohol
- Fertilizers
- Chemistry
- Food and Beverages
- Petrochemical
- Pharmaceutical
- Energy
- Plastic

MAIN TECHNICAL CHARACTERISTICS

Supply Voltage	Maximum 250 VAC or VDC
Current (under Continuous Voltage)	8 à 14 VDC: 5A; 30 VDC: 4A; 125 VDC: 0.4A; 250 VDC: 0.3ª
Current (under Alternating Voltage)	25 VAC: 3A; 125 VAC: 5A; 250 VAC: 0.2A
Activation	2x Mechanical limit switches (SPDT)
Terminals	8 Points
Terminal wire diameter	0.08mm ² to 2.5mm ²
Cable Entry	2x 1/2" NPT (PTI ½, PF ½, M20, PG13.05)
Frequency of Operation (Mechanical)	Maximum 600 Operations per minute
Operating Frequency (Electric)	Maximum 60 Operations per minute
Coupling and Assembly	According to NAMUR standard
Color / Painting	Black / Powder coated chrome polyester
Working angle	0° to 90°
Degree of Protection	IP67
Visual Indication	Red: Closed / Yellow: Open
Body material	Cast aluminum
Indicator Box Material	Polycarbonate
Operating Temperature	-20°C to +80°C
Weight	0,6 Kg
Supply Voltage	Maximum 250 VAC or VDC
Current (under Continuous Voltage)	8 to 14 VDC: 5A; 30 VDC: 4A; 125 VDC: 0.4A; 250VDC: 0.3A

DIMENSIONAL WITHOUT SUPPORT



DIMENSIONAL WITH SUPPORT







ELECTRIC DIAGRAM

To send the open or close signal to be handled in an eventual PLC (programmable logic controller), it is necessary to make the electrical connection of the F500-IP Position Indicator.

- Remove the indicator cover (remove the 4 screws with the appropriate wrench);
- On the inside of the cover there is a sticker with the electrical connection diagram;
- Follow the diagram instructions to connect the wires;
- Replace the cover and tighten the screws again.



WARRANTY

The F500-IP Position Indicator has a 12 month warranty.

Such warranty becomes invalid once the following situations are detected:

- Incorrect installation of the instrument
- Use in inappropriate applications
- Mechanical damage by impacts
- Electrical damage as a result of damage from other instruments in the industrial plant.



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