Leave Surveillance to the Top

Alfa Laval ThinkTop® Basic Digital

Concept

ThinkTop® Basic is a uniform modular control unit that consists of a proven no-touch, set-and-forget sensor system with light-emitting diodes (LEDs), solenoid valves and valve control sensor board for connection to any PLC (Programming Logic Controller) system with one of the three interfaces; Digital and AS-Interface.

ThinkTop offers a solution for Alfa Laval butterfly, single-seat and Mixproof valves and is designed for use in the dairy, food and beverage, and biopharm industries; ThinkTop provides real-time information about valve operating status 24/7 while helping to improve production performance and secure traceability.

Working principle

ThinkTop is an automated control unit that can be fitted with up to three solenoid valves and who convert the electrical PLC and sensor signals into mechanical energy to open or close the air-operated valve, using the physical stimulus of an indication pin mounted on the valve stem. ThinkTop Basic fits onto all Alfa Laval sanitary actuators equipped with mushrooms. Installation is straightforward; no special expertise, adapters or tools are required. To initiate manual setup, simply press the push-button startup sequence.

TECHNICAL DATA

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Sensor board

Max current consumption 45mA

Feedback signal #1 De-energized valve Feedback signal #2 Energized valve

 Feedback signal #5
 Status

 Valve tolerance band options
 1

 Default tolerance band
 ± 5 mm

 Sensor accuracy
 ± 0.1 mm

 Stroke length
 0.1 - 80 mm

Solenoid valve

Max current consumption 45mA

 Numbers of solenoids
 0-3

 Manual hold override
 Yes

 Throttle, Air in/out 1A, 1B
 0 - 100%

 Push-in fittings
 ø6 mm or 1/4







PHYSICAL DATA

Materials

Steel parts Stainless steel and Brass
Plastic parts Black Nylon PA 6
Seals Nitrile (NBR) rubber

Environment

Cable connection

Main cable glandPG11 (4 - 10 mm)

Max wire size0.75 mm² (AWG 19)

Note!

For further information: See also ESE00225

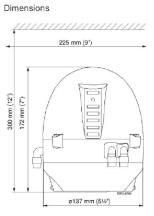
The ThinkTop has Patented Sensor System, Registered Design and Registered Trademark owned by Alfa Laval

Options

- Communication interface
- Solenoid valve configuration
- Pneumatic tubing interface

Accessories

- Various cable options
- Threaded plate for indication pin on SRC, SMP-BC and i-SSV
- Special indication pin for Unique SSV-LS, Unique SSV High Pressure valves
 Adaptor for Unique SSSV valves



Electrical connection

P1 1	1	De-energized (PLC input)
0 1	2	Energized (PLC input)
	3	Activation of solenoid # 1 (PLC input)
Ø 3	4	Activation of solenoid # 2 (PLC input)
Ø 4	5	Activation of solenoid # 3 (PLC input)
Ø <u>5</u>	6	Supply votlage sensor (+) 10-30 VDC
Ø 6	7	Supply votlage sensor (+) 0 VDC
Ø 7	8	Common supply solenoids
Ø 8	9	PNP/NPN jumper
Ø 9	10	PNP/NPN jumper
O 10	11	Solenoid com.blue
Ø 11	12	Solenoid # 1, internal connection (Grey)
Ø 12	13	Solenoid # 2, internal connection (Grey)
0 13	14	Solenoid # 3, internal connection (Grey)
Ø 14		