

# Leave Surveillance to the Top

## Alfa Laval ThinkTop® Basic AS-Interface

#### 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 hygienic 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

#### Communication

#### Sensor board

#### Solenoid valve

Max current consumption45mAAir supply300-900 kPa (3-9 bar)Type of solenoids3/2-ways or 5/2-waysNumbers of solenoids0-3

Numbers of solenoids . . . . . . . . 0-3 Manual hold override . . . . . . Yes

Push-in fittings . . . . . . . . . . . . . . . ø6 mm or 1/4"







#### PHYSICAL DATA

#### Materials

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

#### Environment

#### Cable connection

### Note!

For further information: See also ESE00356

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

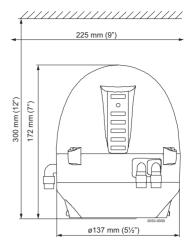
#### Options

- Communication interface
- Solenoid valve configuration
- Pneumatic tubing interface
- Main cable connection

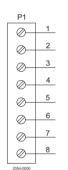
#### Accessories

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

#### Dimensions

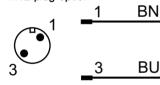


#### Electrical connection



- 1 ASI + (BN, brown)
- 2 ASI (BU, blue)
- 3 PWM jumber
- 4 PWM jumber
- 5 Solenoid common, internal connection (Grey)
- 6 Solenoid # 1 internal connection (Grey)
- 7 Solenoid # 2internal connection (Grey)
- 8 Solenoid # 3internal connection (Grey)

#### M12 plug option



#### AS-Interface bits assignment

For AS-Interface version with 62 node, the following bit assignment

can be used	
DIO	Feedback #1 De-Energized valve
DI1	Feedback #2 Energized valve
DI2	Feedback #3 Not connected
DI3	Feedback #4 Status
DO0	Out #1 Not Connected
DO1	Out #2 Solenoid valve 1
DO2	Out #3 Solenoid valve 2
DO3	Out #4 Solenoid valve 3

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