

SÜDMO SENSOTOP SMART AND COST-EFFICIENT FEEDBACK UNIT

CHALLENGE

It is vital for food and beverage plant operators to know the position of valves at all times to ensure a reliable and smooth process flow. This type of position feedback sensor presents challenges including pinch hazards and the lack of visual valve position identification.

The most cost-efficient solution for achieving this is to use external proximity sensors. This type of position feedback is far from ideal due to safety risks, cleaning challenges and obstructed visibility.

To avoid the risk of trapping limbs during valve switching operations appropriate finger protection must be fitted around the moving parts. This type of structure may adversely affect visual identification of the valve position and require corresponding edges, gap and undercuts on the cover. This makes cleaning the external surfaces more difficult.

SOLUTION

Pentair Südmö's SensoTop Valve Position Feedback Unit was developed to meet this challenge. Using inductive magnetic coils the feedback fields for the individual valve positions are defined and programmed at the press of a button.

This provides significant time savings during assembly and commissioning.

The closed design of the SensoTop eliminates entrapment risks and ensures optimum cleaning of the external surfaces even when valves are installed below process tanks. Due to the all-around 360° LED display the valve position is always visible from any angle.



Pentair Südmö SensoTop Valve Position Feedback Unit

BENEFITS

- Easy adaptation and fast commissioning
- Intuitive feedback position programming - no mechanical adjustments required
- Safe operation as all moving parts are enclosed
- Clear visibility of valve positions through a 360 degree LED
- Hygienic design with IP 65/67 meets water tight needs even when installed on tanks
- Only one cable required for all feedback positions

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TECHNICAL SPECIFICATIONS

Communication

Digital, PnP, 50 mA

Position Measuring System

Detection range 85 mm
Feedback 2 positions monitored

Electrical Connection

24 VDC Plug M12x1(4-pin)

LED status display

Green Valve not activated
Yellow Valve activated
Red Default

Protection class

IP65 acc. DIN EN 60529
IP67 acc. DIN EN 60529

Ex-Zone

II 3 G Ex nR IIC T4 Gc (-10°C ≤ Ta ≤ +55°C)
II 3 D Ex tc IIIC T135°C Dc (-10°C ≤ Ta ≤ +55°C)



Shown above are process valves with proximity sensors equipped with finger protection guards. This solution for valve position feedback creates many challenges for plant operators.



PENTAIR SÜDMO GMBH

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