



Type **SQ**

## IP.67 Valve Position Monitor



The type SQ valve position monitor system

offers IP67 environmental protection for Ex d flameproof hazardous area monitoring applications.

Incorporating features that allow plant personnel to install, monitor and maintain the valve assembly with the minimum of fuss, the units dual function position monitoring system is available with mounting arrangements that allow compact attachment to both quarter-turn and linear process valves.

### Features and Benefits

- Anodised marine grade aluminium (low copper content) black urethane coated housing for superior corrosion protection.
- Versions available providing compatibility for hazardous area applications including ATEX II 2 G / Ex d flameproof
- Screw-on rapid access cover with no cumbersome cover bolts to worry about allows for fast and simple access for installation and maintenance. Access to the inner switch chamber takes less than 15 seconds.
- High visibility position indicator offers excellent viewability without compromising accessibility or space requirements. The unique setting feature of the indicator enables adjustment to register exact valve position.
- Touch and tune quick setting cams allow fast and simple switch adjustments.
- Switch termination via. European approved terminal blocks.
- Compact design provides considerable space saving over similar equipment without compromising the ease of installation or maintenance.
- Simple mounting arrangements allow quick and secure mounting to most types of pneumatic actuators including VDI/VDE.3845 topworks actuators with a minimum height clearance requirements.
- Different electrical functions available including mechanical switches, reed type proximity switches, inductive proximity sensors and 4 to 20mA feedback transmitters.



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Valve Position Monitor



**Materials of Construction**

|                |  |              |       |
|----------------|--|--------------|-------|
| <b>Housing</b> | Housing Anodised Marine Grade Aluminium Urethane Coated ( <i>Black</i> ) |              |       |
| <b>Cover</b>   | Cover Anodised Marine Grade Aluminium Urethane Coated ( <i>Black</i> )   |              |       |
| <b>Shaft</b>   | 300 Stainless Steel  | <b>Seals</b> | Viton |

**Enclosure**

|                        |                 |                           |      |
|------------------------|-----------------|---------------------------|------|
| <b>Type</b>            | SQ – Flameproof | <b>Ingress Protection</b> | IP67 |
| <b>Conduit Entries</b> | 2 x M20         |                           |      |

**Visual Indication**

|               |   |  |  |
|---------------|---|--|--|
| <b>Type R</b> | Red Closed / Green Open ( <i>Optional 3-way flow indicators</i> ) |  |  |
|---------------|---|--|--|

**Electrical Functions\***

|                |   |  |
|----------------|---|--|
| <b>16 / 55</b> | (2) / (4) SPDT V3 Mechanical                  | 10 A @ 125 / 250 VAC, 0.5 A @ 125 VDC  |
| <b>17</b>      | (2) SPDT V3 Mechanical 'Gold Plated' Contacts | 1 A @ 125 VAC, 0.5 A @ 30VDC   |
| <b>25</b>      | (2) SPDT Reed Type Proximity                  | Volts 500 V AC / DC ( <i>Max.</i> ), Current 3 A ( <i>Max.</i> ), Power 100 Watts / VA ( <i>Max.</i> ) 3 Watts ( <i>Min.</i> ) |
| <b>40</b>      | (2) SPST Reed Type Proximity                  | 0.15 A @ 30 VDC  |
| <b>70</b>      | 4 to 20mA Feedback                            | 24 Volts DC  |
| <b>96</b>      | AS-Interface Communication Model              | 4 Inputs Open & Closed / 2 Power Outputs<br>25 to 30 VDC, 4 Watts  |

**Hazardous Area Classification**

|                 |                                      |  |  |
|-----------------|--------------------------------------|--|--|
| <b>Model SQ</b> | ATEX II 2 G / Ex d IIC T5 Flameproof |  |  |
|-----------------|--------------------------------------|--|--|

*\*Note – Other functions available on request*