



Type **XS**

**Sub-sea**  
Valve Position  
Monitor



The type XS valve position monitor system offers IP68 protection for valve / actuator monitoring applications sub-sea.

Incorporating features that allow diver 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**

- 316SS stainless steel enclosure for superior corrosion protection.
- IP68 protection and suitable for sub-sea depths up to 1000 metres (increased depths available on request).
- Versions available providing compatibility for EEx ia intrinsic safety hazardous area applications.
- Different electrical functions available including reed type proximity switches, inductive proximity sensors and 4 to 20mA feedback transmitters.
- Open / Closed position indicator providing excellent viewability but does not compromise accessibility or space requirements.
- 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 many types of actuators.
- Position and orientation ensured by dowel pins which only allow one way installation.
- Enclosure is diver retrievable using specially designed nuts easily accessed via. diver gloved hands.
- Enclosure suitable to accept client specified sub-sea electrical receptacles / connectors.



## Type XS

### Sub-sea Valve Position Monitor



#### Materials of Construction

<b>Housing</b>	316SS Stainless Steel
<b>Cover</b>	316SS Stainless Steel
<b>Seals</b>	Polyurethane / Nitrile
<b>Fasteners</b>	A4 (316) Stainless Steel

#### Enclosure

<b>Type</b>	Sub-sea
<b>Ingress Protection</b>	IP68

#### Visual Indication

<b>Type R</b>	Red Closed / Green Open
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#### Electrical Functions\*

<b>25</b>	(2) SPDT Reed Type Proximity	Volts 500 V AC/DC (Max.), Current 3 A (Max.), Power 100 Watts/VA (Max.) 3 Watts (Min.)
<b>33</b>	(2) SST Inductive Proximity	0.25 A @ 125 V AC/DC
<b>40</b>	(2) SPST Reed Type Proximity	0.15 A @ 30 VDC
<b>43</b>	(2) Cylindrical Namur Inductive Proximity (2) Cylindrical Inductive Proximity 3-Wire	On I <1mA, Off I >3mA, 8 VDC Nominal On Request
<b>44</b>	(2) Namur Inductive Proximity	On I <1mA, Off I >2.1mA, 7 to 24 VDC (8 VDC Nominal)
<b>70</b>	(1) 4 to 20mA Feedback	8 to 24 Volts DC (Option – HART Protocol)
<b>72</b>	(1) Digital	9 to 32 Volts DC, FOUNDATION Fieldbus / Profibus-PA

#### Hazardous Area Classification

<b>Type XS</b>	Non-Hazardous EEx ia IIC T6 Intrinsic Safety - Functions 40, 43, 44 and 70
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*\*Note – Other functions available on request*