
Stainless Steel or Aluminium | IP.**67** | **Valve Position Monitor** | **Ex ia intrinsically safe**

**Type AQ coated hard anodised aluminium and CF8M (316) stainless steel ATEX Certified Ex ia valve position monitor offers IP67 environment protection for general purpose and intrinsically safe 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.**

valvescan

HART COMMUNICATION FOUNDATION

Fieldbus Foundation

PROFIBUS

- IP.67 Coated hard anodised aluminium or CF8M (316SS) stainless steel enclosure for superior corrosion protection and mechanical resistive properties.
- ATEX Certified II 2 G / Ex ia IIC T4/5/6 intrinsically safe for zones 0, 1 & 2 hazardous areas.
- Switch termination via. European approved terminal blocks.
- Different electrical functions available including mechanical switches, reed type proximity switches, inductive proximity sensors, 4 to 20mA and digital (bus) feedback transmitters.
- Touch and tune quick setting cams allow fast and simple switch adjustments.
- A screw-on rapid access cover allows for fast and simple access for installation and maintenance. Access to the inner switch chamber takes less than 15 seconds.
- Compact design provides considerable space saving over similar equipment without compromising the ease of installation or maintenance.
- 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 / actuator position.
- Simplified mounting arrangements allow quick and secure mounting to most types of pneumatic actuators including VDI/VDE.3845 topworks actuators with minimum height clearance requirements.

**Ex marking:**
II 2 G
Ex ia IIC T4/T5/T6 Gb
$T_{amb}$ = -50ºC to +100ºC

Notes:
The temperature class and ambient temperature range depends on the electrical function and construction of the system, please refer to hazardous area certificate documentation.

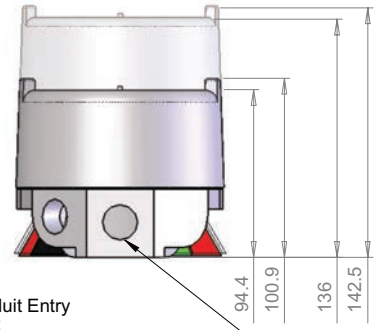
**Certificate Number:**
Sira 10ATEX2060X
TR CU RU C-GB-MI-O62.B.00729

Badran Control Process Components.

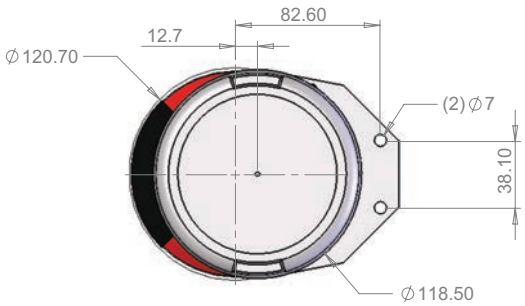
imtexvalve COMMUNICATION

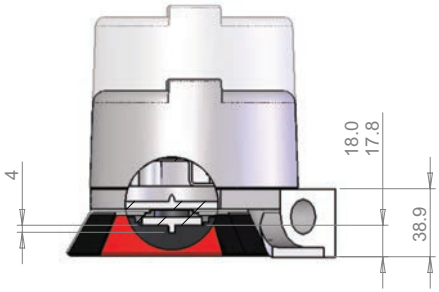
Badran
Control Process Components.

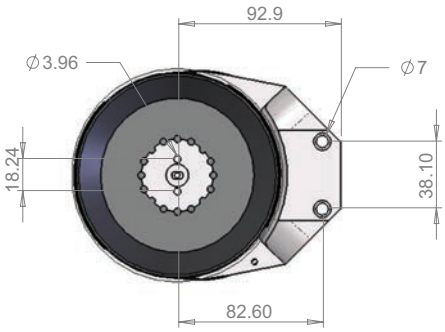
type AQ




2 or 3 x Conduit Entry
Size Options:
Central Entries - M20, 1/2"NPT or 3/4"NPT
Offset Entries - M20 or 1/2"NPT




*Imtex Controls Limited is constantly improving the specifications, design and production of its products and alterations take place continually. Whilst every effort is made to produce up to date literature this leaflet should not be regarded as an infallible guide to current specifications. E & OE.*

## Stainless Steel or Aluminium | IP.67 | Valve Position Monitor

**www.imtex-controls.com/aq**

**Model Number Compilation** (Drawing No. A190228)

| Type | Electrical Function | Material of Construction | Conduit Size | Output Drive | Visual Indicator | - | Feature |
|---|---|---|---|---|---|---|---|
| **AQ** | **42** | **S** | **5** | **S** | **R** | | **W00** |

| Code | **Electrical Function** - *Standard Options* [1] |
|---|---|
| **17 / 56** | (2) / (4) SPDT Mechanical Switches 'GP' Contacts |
| **40 / 59** | (2) / (4) SPST Reed Proximity Switches |
| **42 / 52** | (2) / (4) V3 Inductive Proximity Sensors |
| **43 / 53** | (2) / (4) Other Inductive Proximity Sensors |
| **70** | 4 to 20mA Transmitter (Resistive or Non-contact / HART optional)<br>Digital Transmitter (Resistive / Foundation Fieldbus or Profibus-PA) |
| | **Material of Construction (Enclosure)** |
| **9** | Aluminium (Anodised) Coated |
| **S** | CF8M (316) Stainless Steel |
| | **Conduit Size*** |
| **5** | (2) M20 x 1.5 |
| **6** | (3) M20 x 1.5 |
| **8** | (2) NPT – 1 x ¾" / 1 x ½" |
| **9** | (3) NPT – 1 x ¾" / 2 x ½" |
| **B** | (2) NPT – 2 x ½" |
| **C** | (3) NPT – 3 x ½" |

**1 x conduit entry units available On Request.*

| Code | **Output Drive** |
|---|---|
| **N** | Namur Coupler |
| **S** | 2-pin Coupler |
| | **Visual Indicator*** |
| **R** | Red (Closed) / Green (Open) |
| **C** | 0 to 100% Graduated |
| **0** | No Visual Indicator |
| | **Engineered Resin material* |
| | **Feature** [5] |
| **Exx** | Non-contact Transmitter w/Type 2 Low Temp Proximity (optional) |
| **Fxx** | Resistive Transmitter w/Type 2 Low Temp Proximity (optional) |
| **Gxx** | Non-contact Transmitter w/Volt Free Switches (optional) |
| **Hxx** | Non-contact Transmitter w/Type 2 Proximity (optional) |
| **Jxx** | Resistive Transmitter w/Volt Free Switches (optional) |
| **Txx** | Type 1 Low Temp Proximity Sensor |
| **Uxx** | Type 2 Low Temp Proximity Sensor |
| **Vxx** | Resistive Transmitter w/Type 2 Proximity (optional) |
| **Wxx** | Type 2 Proximity Sensor |
| **Yxx** | Type 1 Proximity Sensor |
| **Zxx** | Volt Free Switches |
| **'xx'** | See Note [2] |

**NOTES**

1. Other Electrical Functions are available 'On Request'.
2. The exact detail of electrical function fitted or any other special feature is not fully specified by the basic model code, therefore, the Feature Designator provides a mechanism for cross referencing to a centralised engineering log which identifies the detailed specification of the parts fitted in the given unit.
3. Functions 17, 40, 42 & 43 generally use a short cover, but Function 43 cylindrical sensors longer than 36mm will use a tall cover as will Functions 52, 53, 56, 59 and 70.
4. Please refer to our Product Overview leaflet for full specification of the Electrical Functions provided or consult our Technical Sales.
5. Please refer to Certificate No. Sira 10ATEX2060X for specification details of Type 1 and Type 2 proximity sensors.

IVC/02AQ/0515

imtexvalve COMMUNICATION

**IMTEX Valve Communication**
Tel **+44 (0)8700 340 002 / +44 (0)1732 850 360** Fax **+44 (0)1732 852 133** Email **sales@imtex-controls.com**
**Sales & Administration** Tonbridge (Kent) UK **Engineering & Production** Deeside (Flintshire) UK
**www.imtex-controls.com**