# **HyVision and SafeVision**

SED

Valve Position Monitoring

Kwik Set switch position setting
High visibility visual indication
Eliminates additional Junction Boxes
Suitable for bus communication

Corrosion Resistant



DPE



# HyVision and SafeVision **Engineered Valve Position Monitoring** integrated with your actuator

### **Rugged & Corrosion Resistant**

To meet the challenges of today's process environments, both enclosures are manufactured from state-ofthe-art materials that provide superior strength and maximum resistance to attack from corrosives.

### Visual Indication

HYTORK's visual indication is the largest, most easily seen indicator available. Protected by the virtually unbreakable polycarbonate cover, accurate position indication can be viewed from almost any angle.

### **Switches**

Both enclosures accept a large choice of switch designs, including hermetically sealed reed switches, V3 micro switches, proximity sensors, plus other control accessories. Up to four switches and other feedback devices can be installed. The right choice for your application.

### **Easy Switch Position Setting**

Both enclosures feature Kwik Set Cam adjustment for easy, precision position indication and calibration.



# Micro switch.

Proximity Sensor, Reed switch, and Pneumatic switch options

- High visibility visual indication
- Flow path monitoring for multiport valves
- Eliminates additional Junction Boxes
- Kwik Set switch position setting
- Suitable for bus communication
- Corrosion Resistant

### **Superior Sealing**

"O" ring seals are used to provide reliable protection against the ingress of solids and liquids.

### A Multiple Use **Junction Box**

Both enclosures are available with multiple conduit entries and multiple internal terminal wiring strips. Efficient use of the housings eliminates the need for separate electrical junction boxes. Solenoid valves, limit switches and other feedback devices can all be wired in this one single enclosure. A real cost and time saver.

### **VDI/VDE Accessory Mounting**

All HYTORK enclosures meet the VDI/VDE international accessory mounting standards for ease of assembly and application. An universal VDI/VDE accessory mounting platform is available.

### **Bus Communication**

Both enclosures are suitable for bus communication technologies (AS-interface, Profibus DP and PA).





# HyVision

A rugged, corrosion resistant enclosure for environments that require a weatherproof IP66 rating. The base is manufactured from composite resin and the indicator cover from high impact polycarbonate. Available with up to 3 conduit entries and switch wiring for up to 16 terminals. HYVision Zone 2 (EEx N IIC T6) utilises specially rated components and is certified to CENELEC Zone 2 Specifications.



# SafeVision

A rugged, explosion proof enclosure, designed to meet CENELEC EN 50 018 Code EExd requirements. A two part epoxy coating provides a corrosion resistant exterior to the aluminium housing. Also available in COMMANDO bonded coating for more aggressive environments. The indicator cover is manufactured from high impact polycarbonate. Also available without visual indication. Available with up to 4 conduit entries and switch wiring for up to 20 terminals. The unique split shaft design allows the cover and visual indicator to be removed as a complete unit within the smallest possible space.

# Specifications

### General Specifications

# Temperature Range: Standard: - 40°C to 100°C (- 40°F - 212°F)

### **Visual Indicator Options:**

0° to 90° 0° to 180° Many Flow Path Monitoring Options. Alternative Colours and Languages available on request.



# Standard Electrical Thread Forms:Standard:M20Optional:M251/2" & 3/4" NPT ThreadsPG13.5 European

# Hazardous area selection guide

Area Classification	CENELEC Coding	Protection Method
Zone 0	EExia IIC T6	Intrinsic Safety HyVision or SafeVision with certified proximity sensors
Zone 1	EExd IIB T6	<b>Explosion Proof</b> SafeVision DEMCO certified 98D-124162
Zone 2	EExn (N) IIC T6	<b>Non-incendive</b> HyVision Zone 2 certified Ex 94Y4004
Ingress protection	IP67 IP66	SafeVision HyVision
Impact tested and certified		



**Compatible Switch Options:** 

**Mechanical Switches** 

VAC

125

250

-

Standard:

Optional:

SPDT

AMPs

15

15

0.5

0.25

2 x V3 SPDT

1 - 4 Switches

- Proximity Sensors

- Pneumatic Switches

- DPDT Switches

- Reed Switches

VDC

-

125

250

**Electrical Ratings (Resistive Loads)** 

Mechanical Micro Switches

DPDT

AMPs

10

10

-

VAC

125

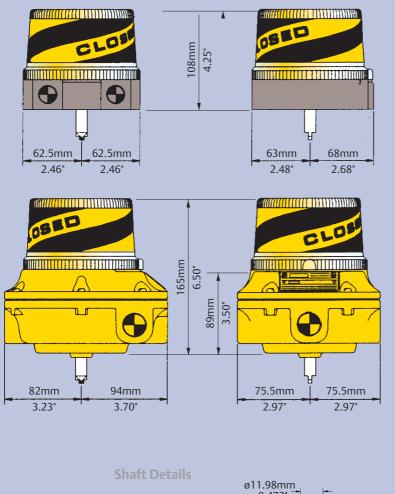
250

-

# Specifications Bus components

#### **Hy**Vision **Hy**Vision **Hy**Vision Profibus<sup>®</sup> DP Profibus<sup>®</sup> PA Specification ASI **Fieldbus Card:** I/O Input 2 for position indication 2 for position indication 2 for position indication Output 2 for one or two solenoids 2 for one or two solenoids 1 for the solenoid valve -25° to +80°C -25° to +80°C -25° to +80°C Operating temperature -13° to +176°F -13° to +176°F -13° to +176°F Power supply 24VDC By the bus system By the bus system Max.current 252mA 16mA (inc.solenoid) 100mA Galvanic Isolation -/--/-Solenoid: Туре Single or dual coil Single or dual coil solenoid Single coil Supply 24 VDC, 2.6 W max. with piezotronic component 24 VDC, 2.6 W max.

#### Dimensions



### **Mounting Details**

8

8

Metric 4 holes

M8 x10mm

Imperial 4 holes 3/8"-18UNCx 3/8" deep on a 2.25" square

deep on a 2.25" (57.15mm) square

4

### Metric

4 holes M6 x12mm deep equi-spaced on a 50mm PCD

### Imperial

4 holes 1/4"-20UNCx 5/8" deep equi-spaced on a 1.968" PCD

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4 holes M6 x12mm deep equi-spaced on a 50mm PCD

### Imperial

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Emerson Process Management

E: info.Hytork.USA@EmersonProcess.com

Valve Automation Division

9009 King Palm Drive

United States of America

T: [+1] (813) 630 22 55

F: [+1] (813) 630 94 49

Hytork

Tampa

Florida

33619

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#### Emerson Process Management Valve Automation Division Hytork 6 Bracken Hill Southwest Industrial Estate Peterlee, Co. Durham SR8 2LS United Kingdom T: [+44] (0191) 518 00 20 F: [+44] (0191) 518 00 32 E: info.Hytork@EmersonProcess.com

www.hytork.com





