

NON-INCENDIVE, INTRINSICALLY SAFE AND EXPLOSIONPROOF - NEC

Intellis is a family of fully-integrated control monitors that provide cost-effective valve automation and intelligent networking via all the major network protocols



#### **TECHNICAL DATA**

#### Agency approvals

Area Classification (NEC 500) Non-incendive

Intrinsically Safe

Explosionproof

Enclosure standards (ANSI/NEMA 250) All Enclosures Network protocols supported

Intellis 7200 Intellis 7300 Intellis 7400 Intellis 7500 Intellis 7600 Intellis 7700 Enclosures

Class I, Division 2, Groups A, B, C & D Class II & III, Division 2, Groups F & G Class I, Division 1, Groups A, B, C & D Class I. None 0. IIC Class I, Division 2, Groups A, B, C & D Class II & III, Division 2 Class I, Division 1, Groups C & D Class II & III, Division 2, Groups E, F & G

Type 4, 4X

PROFIBUS DP FOUNDATION Fieldbus™ ModBus® Direct ModBus® DeviceNet™ AS-interface® Ver. 2.1

Engineered resin Aluminum

#### FEATURES

- Dedicated network modules (PACs) for all major protocols.
- Simple in-field conversion of network protocols.
- Multiple housing options (resin, aluminum, stainless steel).
- Models approved for all hazardous area applications.
- Control & monitoring for rotary and linear valves.
- Non-contact position monitoring by Hall effect sensors.
- Integrated pneumatic actuation control via pre-wired Falcon solenoid valves.
- On-line predictive and maintenance-related diagnostics.
- Eliminates wiring cost of conventionallyhardwired I/O systems.
- Reduces design engineering man-hours
- Range of drive shaft options.
- Visual indication Beacon available in a choice of styles and colors.

#### **GENERAL APPLICATION**

Intellis network control monitors use embedded control systems to automate valves and link field I/O to the host PLC or DCS. They incorporate all the features of standard Westlock control monitors with the addition of a network I/O module.

## **INTELLIS** NETWORK CONTROL MONITORS NON-INCENDIVE, INTRINSICALLY SAFE AND EXPLOSIONPROOF - NEC

# NETWORK SYSTEMS FOR VALVE AUTOMATION

Intellis is a family of field network control monitors which use embedded control systems to automate valves and link field I/O to the host PLC or DCS. They incorporate all the features of our standard control monitors with the addition of a network I/O module.

Each network monitor houses two discrete Hall effect sensors for valve position monitoring, a low power solenoid valve for actuation control and a network interface module for communication via the chosen network protocol. Monitors are available for linear and rotary applications in all area classifications.

#### THE NETWORK MODULE

Each Intellis model contains a dedicated network module (Pac) that is integrated within its enclosure. A different Pac is factoryintegrated depending upon the network protocol selected. The Pacs' modular design enables the simple conversion of units from one network protocol to another (with the sole exception of FOUNDATION Fieldbus™) in the field by authorized personnel, should the need arise.

Integrated network modules have protective diodes and optical isolation as standard. They are housed in general purpose, Division 2 Nonincendive or Explosionproof enclosures with a 16 point terminal block for simple wiring.

#### Peripheral interface devices

- Cables
- Power supplies
- Gateways
- Repeaters
- Extenders
- Configuration tools
- Software/diagnostics
- Junction boxes

#### STANDARD NETWORK PROTOCOLS

The development of standard network protocols has made it possible to integrate process control components into a network effectively. ModBus®, DeviceNet™, AS-interface®, PROFIBUS and FOUNDATION Fieldbus™ are now the standards for interfacing discrete devices. They are proven to be extremely reliable, simple to understand and consistently cost-effective. They integrate simply with all major PLCs and DCS systems via off-the-shelf gateway interfaces.

#### ACCESSORIES

We are committed to making your network design, procurement and installation experience easier. To complement our wide array of network valve monitoring and control products, we offer a variety of accessories to meet your network connectivity and power requirements. From power supplies and cables to gateways and junctions, we've got what you need to get the job done efficiently.

#### SERVICES

We offer expert services for the design and installation of ASi<sup>®</sup>, DeviceNet<sup>™</sup>, ModBus<sup>®</sup>, PROFIBUS and FOUNDATION Fieldbus<sup>™</sup> networks. This includes the specification of all equipment from the PLC or DCS down.

#### Application support

- Engineering design
- Integration
- Start-up support
- Training
- Turnkey installations



Network module



Gateway interface



Junction box

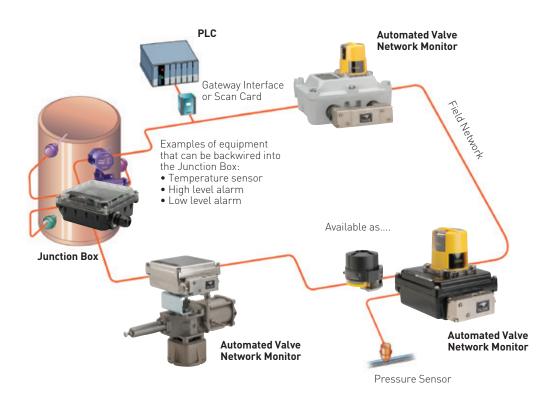


Interconnects

## FIELD NETWORK

A field communications network comprises a specific number of network monitors interconnected by a common communications protocol. Network monitors may be placed on the field network in any physical order. Each monitor is assigned a unique address and accepts input/output signals from valve position sensors, solenoids and external devices.

Communication with a PLC, DCS or host computer is accomplished by a compatible gateway interface or scanner card.



#### AUTOMATED VALVE NETWORK MONITOR

The network monitor for automated valves couples directly onto the pneumatic or electric actuator. Each unit can accept input/output signals from position sensors and solenoid valves while simultaneously performing on-line diagnostics. In addition, each network monitor will interact with a comprehensive range of external field devices for control or alarm purposes.

#### EXTERNAL DEVICE NETWORK MONITOR

Network monitors are available for control or monitoring of non-valve related devices including sensors, alarms, actuators, indicating lights, etc. Depending on the protocol, each stand-alone network monitor is capable of accepting up to six external devices within the primary control network.

## **INTELLIS** NETWORK CONTROL MONITORS INTELLIS 7200 PROFIBUS



#### **INTELLIS 7200 PROFIBUS**

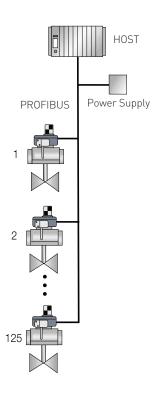
PROFIBUS (Process Field Bus) has been a standard for field bus communication in automation technology since it was first developed in 1989.

#### PROFIBUS

| Physical media                          | Twisted pair for communications, two wires for power         |
|---|--|
| Maximum distance                        | 3960 ft. (1200 m) trunk                                      |
| Maximum network monitors per system     | 32/segment; 126/system using repeaters                       |
| Maximum I/O points per system           | 1125/system  |
| Current consumption per network monitor | 120 mA   |
| Interface capability                    | All PLCs and DCS supporting the PROFIBUS protocol            |
| Communications method                   | Peer to peer and cyclic Master/slave                         |
| Error checking                          | CRC check  |
| Network topology                        | Linear, prefered, drops allowed at Baud rates below 500 kbps |
| Transmission speed                      | 9.6, 19.2, 93.75, 187.5, 500, 1500, 12000 kbps               |
| Redundancy                              | No   |
| Valves specific diagnostics             | Yes  |

- 1. Please contact your sales office for guidance on selecting the best possible combination for your control and monitoring requirements.
- 2. See Hazardous area classification technical bulletin for further information on global standards.





### INTELLIS NETWORK CONTROL MONITORS INTELLIS 7300 FOUNDATION FIELDBUS™



#### INTELLIS 7300 FOUNDATION FIELDBUS™

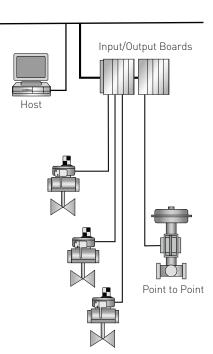
Foundation Fieldbus is an all-digital, serial two-way communications system that is an open architecture, developed and administered by the Fieldbus Foundation.



#### FOUNDATION FIELDBUS™

| Physical media                          | Two wire cable (communications and power)  |
|---|--|
| Maximum distance                        | 6720 ft. (1900 m) including spurs  |
| Maximum network monitors per system     | 6/segment if bus powered & IS; 12/segment if bus powered & non-IS; 32/seg. if neither bus powered nor IS |
| Maximum I/O points per system           | 192/system   |
| Current consumption per network monitor | 18-24 mA IS  |
| Interface capability                    | All PLCs and DCS supporting the FF protocol  |
| Communications method                   | Peer to peer   |
| Error checking                          | CRC check  |
| Network topology                        | Daisy chain, trunk/drop (spurs), branching drop (spurs), point to point                                  |
| Transmission speed                      | 31.25 kbps   |
| Redundancy                              | Yes  |
| Valves specific diagnostics             | Yes  |

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## INTELLIS NETWORK CONTROL MONITORS INTELLIS 7400 MODBUS® DIRECT



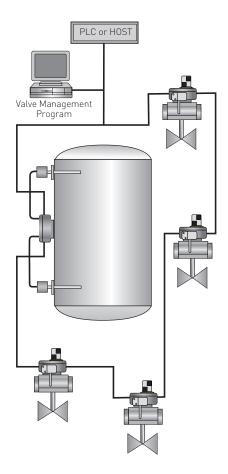
#### INTELLIS 7400 MODBUS® DIRECT

ModBus® Direct devices can be connected to any PLC or DCS with a ModBus® port.

#### MODBUS® DIRECT

| Physical media                          | Twisted pair for communications, two wires for power   |
|---|--|
| Maximum distance                        | 3000 ft. (909 m)                                       |
| Maximum network monitors per system     | 127 per one ModBus master                              |
| Maximum I/O points per system           | 256/network plus optional 4/20mA analog I/O 256/system |
| Current consumption per network monitor | 27 mA + 20-25 mA/coil                                  |
| Interface capability                    | All PLCs and DCS with ModBus® port                     |
| Communications method                   | Master/slave with cyclic polling                       |
| Error checking                          | CRC check  |
| Network topology                        | Zero drop  |
| Transmission speed                      | 9.6 kbps, 19.2 kbps                                    |
| Redundancy                              | No   |
| Valves specific diagnostics             | Yes  |

- 1. Please contact your sales office for guidance on selecting the best possible combination for your control and monitoring requirements.
- 2. See Hazardous area classification technical bulletin for further information on global standards.



## INTELLIS NETWORK CONTROL MONITORS INTELLIS 7500 MODBUS®



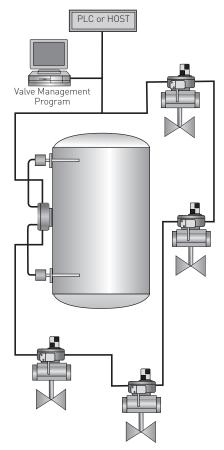
#### INTELLIS 7500 MODBUS®

The ModBus $^{\circ}$  protocol operates over a serial interface and is supported by almost every PLC, DCS and operator interface (OI) company.

#### **MODBUS®**

| Physical media                          | Twisted pair for communications, two wires for power |
|---|--|
| Maximum distance                        | 3000 ft. (909 m)                                     |
| Maximum network monitors per system     | 100/network; 10 networks/system                      |
| Maximum I/O points per system           | 800/network; 8000/system                             |
| Current consumption per network monitor | 27 mA + 20-25 mA/coil                                |
| Interface capability                    | All PLCs and DCS with ModBus® port                   |
| Communications method                   | Master/slave with cyclic polling                     |
| Error checking                          | CRC check  |
| Network topology                        | Closed loop bus                                      |
| Transmission speed                      | 9.6 kbps   |
| Redundancy                              | Yes  |
| Valves specific diagnostics             | Yes  |

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- 2. See Hazardous area classification technical bulletin for further information on global standards.



## INTELLIS NETWORK CONTROL MONITORS INTELLIS 7600 DEVICENET™



#### INTELLIS 7600 DEVICENET™

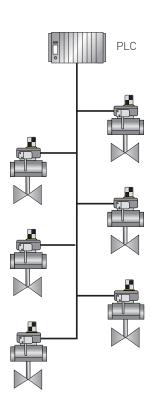
DeviceNet<sup>™</sup> is an open device network standard based upon proven Controller Area Network (CAN) technology.

#### DEVICENET™

|  | Physical media                          | Twisted pair for communications, two wires for power   |
|--|---|--|
|  | Maximum distance                        | 1600 ft.(485 m) trunk + 512 ft. (155 m) drop           |
|  | Maximum network monitors per system     | 63/network;  |
|  | Maximum I/O points per system           | 378/network plus optional 4/20mA analog I/O 756/system |
|  | Current consumption per network monitor | 45 mA + 20-25 mA/coil                                  |
|  | Interface capability                    | All PLCs and DCS with DeviceNet™ Interface             |
|  | Communications method                   | Master/slave multimaster, peer-to-peer                 |
|  | Error checking                          | CRC check  |
|  | Network topology                        | Zero drop, trunk/drop, daisy chain, branch             |
|  | Transmission speed                      | 125 kbps, 250 kbps, 500 kbps                           |
|  | Redundancy                              | No   |
|  | Valves specific diagnostics             | Yes  |
|  |   |  |

- 1. Please contact your sales office for guidance on selecting the best possible combination for your control and monitoring requirements.
- 2. See Hazardous area classification technical bulletin for further information on global standards.





INTELLIS 7700 AS-INTERFACE® VER. 3.0



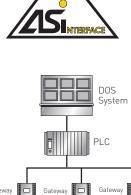
#### INTELLIS 7700 AS-INTERFACE<sup>®</sup> VER. 3.0

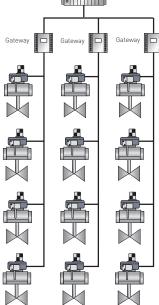
The AS-Interface<sup>®</sup> protocol was developed by a consortium of major European companies. Designed specifically for use in low level automated systems, AS-i can communicate via a gateway to most higher-level bus systems such as DeviceNet<sup>™</sup>, Modbus<sup>®</sup> and PROFIBUS.

#### AS-INTERFACE® VER. 3.0

| Physical media                          | Two wire cable (communications and power)                 |
|---|---|
| Maximum distance                        | 300 ft. (90.9m) 900 ft. (273 m) with repeater             |
| Maximum network monitors per system     | 62/network with 2.1 Master ,1 network/system              |
| Maximum I/O points per system           | 434/network, 434/system                                   |
| Current consumption per network monitor | (2 in/2 out) 11 mA (power) - 59 mA (1 in/1 out)           |
| Interface capability                    | All PLC's and DCS with ModBus®, DeviceNet™, PROFIBUS port |
| Communications method                   | Master/slave with cyclic polling                          |
| Error checking                          | Control sum, parity                                       |
| Network topology                        | Trunk/drop, zero drop                                     |
| Transmission speed                      | 167 kbps  |
| Redundancy                              | No  |
| Valves specific diagnostics             | No  |

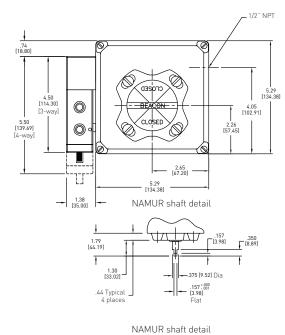
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## **INTELLIS** NETWORK CONTROL MONITORS NON-INCENDIVE ALUMINUM ENCLOSURE DIMENSIONS

Color coded "Beacon position indicator" 2.34 [59.43] Dia 2.94 CLOSED 6.54 [166.11] 0 2.60 [65.91] 2.00 [50.80] 0 2.85 [72.52] .84 [21.41] ļ 0  $( \land )$ .25 [6.35] 1.00 .375 [9.51] Dia .56 [14.22] .44 Typical 4 places .248 [6.30] \*.000 Flat 5/16 - 18 UNC tapped x .44 deep, 4 places 1.13 [28.58] 1.13 [28.58] t Bottom view Via hio



Dimensions in inches, metric dimension (mm) in parentheses

#### **TECHNICAL SPECIFICATIONS**

| Aluminum with powder coat finish |
|----------------------------------|
| Stainless steel                  |
| Co-polyester                     |
| Oil impregnated bronze           |
|                                  |
| Double-D with ¼" A/F             |
| NAMUR standard VDI/VDE 3845      |
|                                  |

#### NOTES

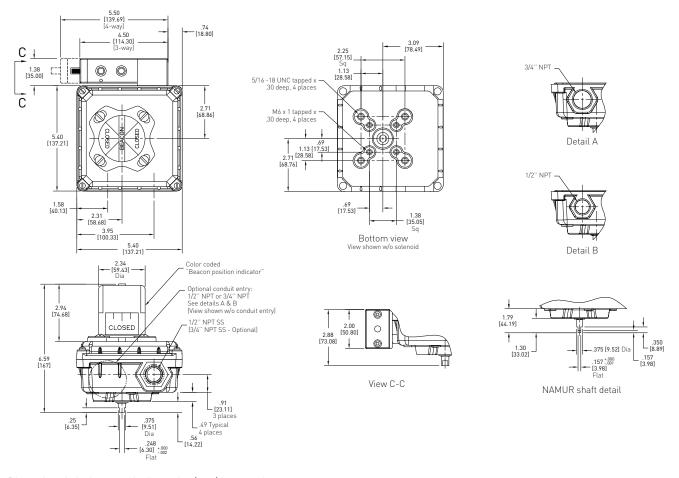
1. Intellis control monitors are available with a choice of conduit entries. Please see the selection guide for standard entries

2. Please consult your sales office for any other requirements

#### SOLENOID VALVES

The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and  $C_{\rm V}$  to best suit your application. See the Falcon data sheet for more information.

## **INTELLIS** NETWORK CONTROL MONITORS NON-INCENDIVE ENGINEERED RESIN ENCLOSURE (SINGLE COIL) DIMENSIONS



Dimensions in inches, metric dimension (mm) in parentheses

## TECHNICAL SPECIFICATIONS

| Materials of construction |                             |
|---------------------------|-----------------------------|
| Enclosure                 | Engineered polyamide resin  |
| Shaft and hardware        | Stainless steel             |
| Beacon visual indicator   | Co-polyester                |
| Bushing                   | Nylon                       |
| Drive shaft               |                             |
| Westlock standard         | Double-D with ¼" A/F        |
| NAMUR standard            | NAMUR standard VDI/VDE 3845 |

#### SOLENOID VALVES

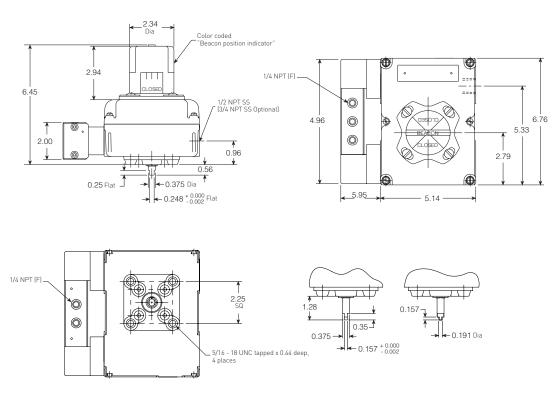
The Falcon range of solenoid values allows you to choose the material, voltage, number of ports, number of coils and  $C_{\rm V}$  to best suit your application. See the Falcon data sheet for more information.

#### NOTES

1. Intellis control monitors are available with a choice of conduit entries. Please see the selection guide for standard entries

2. Please consult your sales office for any other requirements

NON-INCENDIVE ENGINEERED RESIN ENCLOSURE (DUAL COIL) DIMENSIONS



Dimensions in inches

#### **TECHNICAL SPECIFICATIONS**

| Materials of construction |                             |
|---------------------------|-----------------------------|
| Enclosure                 | Engineered polyamide resin  |
| Shaft and hardware        | Stainless steel             |
| Beacon visual indicator   | Co-polyester                |
| Bushing                   | Nylon                       |
| Drive shaft               |                             |
| Westlock standard         | Double-D with ¼" A/F        |
| NAMUR standard            | NAMUR standard VDI/VDE 3845 |

#### SOLENOID VALVES

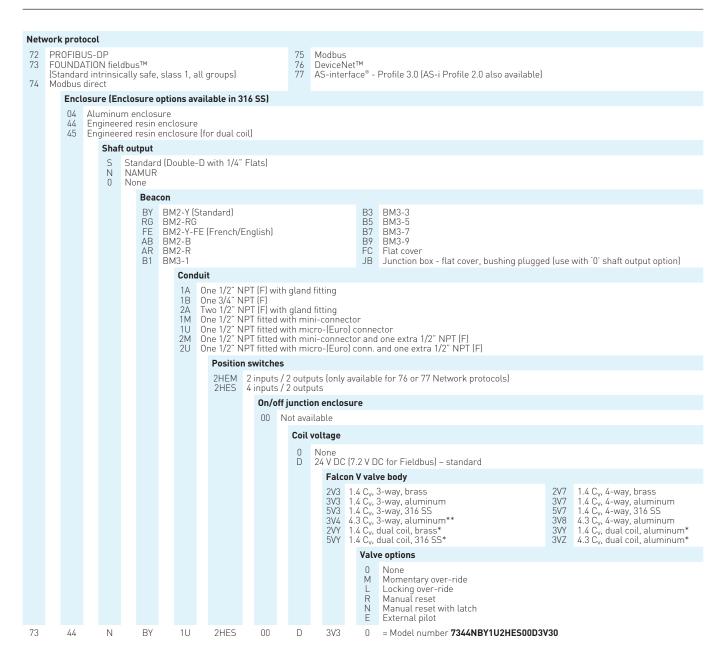
The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and  $C_{\rm V}$  to best suit your application. See the Falcon data sheet for more information.

#### NOTES

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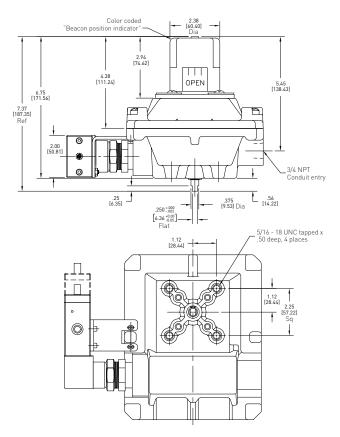
NON-INCENDIVE SELECTION GUIDE



\* Dual coil valve body options only available with enclosure '45'

\*\* 3V4 valves are 3V8 valves with ports 2 and 3 plugged at factory for 3-way functionality.

## **INTELLIS** NETWORK CONTROL MONITORS EXPLOSIONPROOF ALUMINUM ENCLOSURE (SINGLE COIL) DIMENSIONS



Dimensions in inches, metric dimension (mm) in parentheses

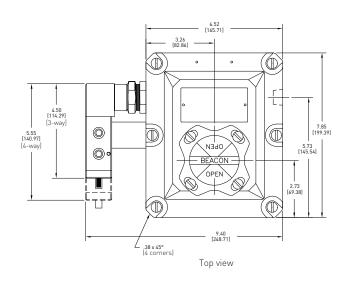
#### **TECHNICAL SPECIFICATIONS**

| Enclosure               | Aluminum with powder coat finish |
|-------------------------|----------------------------------|
| Shaft and hardware      | Stainless steel                  |
| Beacon visual indicator | Co-polyester                     |
| Bushing                 | Oil impregnated bronze           |
| Drive shaft             |                                  |
| Standard                | Double-D with ¼" A/F             |
| Option                  | NAMUR standard VDI/VDE 3845      |
|                         |                                  |

#### NOTES

1. Intellis control monitors are available with a choice of conduit entries. Please see the selection guide for standard entries

2. Please consult your sales office for any other requirements

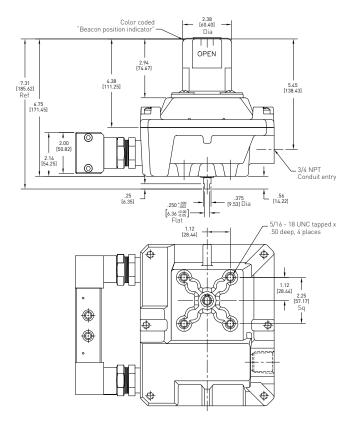




### SOLENOID VALVES

The Falcon range of solenoid values allows you to choose the material, voltage, number of ports, number of coils and C<sub>v</sub> to best suit your application. See the Falcon data sheet for more information.

## **INTELLIS** NETWORK CONTROL MONITORS EXPLOSIONPROOF ALUMINUM ENCLOSURE (DUAL COIL) DIMENSIONS



Dimensions in inches, metric dimension (mm) in parentheses

#### **TECHNICAL SPECIFICATIONS**

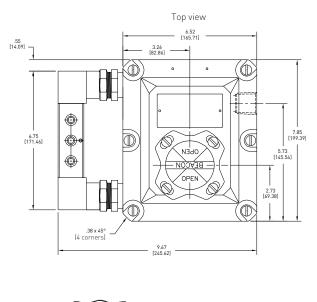
#### Materials of construction

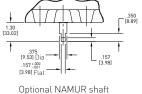
| Enclosure               | Aluminum with powder coat finish |  |  |  |  |  |
|-------------------------|----------------------------------|--|--|--|--|--|
| Shaft and hardware      | Stainless steel                  |  |  |  |  |  |
| Beacon visual indicator | Co-polyester                     |  |  |  |  |  |
| Bushing                 | Oil impregnated bronze           |  |  |  |  |  |
| Drive shaft             |                                  |  |  |  |  |  |
| Standard                | Double-D with ¼" A/F             |  |  |  |  |  |
| Option                  | NAMUR standard VDI/VDE 3845      |  |  |  |  |  |

NOTES

1. Intellis control monitors are available with a choice of conduit entries. Please see the selection guide for standard entries

2. Please consult your sales office for any other requirements





#### SOLENOID VALVES

The Falcon range of solenoid values allows you to choose the material, voltage, number of ports, number of coils and  $C_{\rm v}$  to best suit your application. See the Falcon data sheet for more information.

EXPLOSIONPROOF SELECTION GUIDE

| Netv           | vork                                  | prot  | ocol   |   |    |                      |     |                             |      |                             |                                 |   |          |        |                                 |   |   |  |
|----------------|---------------------------------------|---|--|---|----|----------------------|-----|-----------------------------|------|-----------------------------|---------------------------------|---|----------|--------|---------------------------------|---|---|--|
| 72<br>74<br>75 | Mo                                    | OFIBI<br>dbus <sup>o</sup><br>dbus <sup>o</sup> | <sup>®</sup> Dir   |   |    |                      |     |                             |      |                             |                                 |   | 76<br>77 |        | eviceN<br>S-inte                |   | Profile 3.0 (AS-i Profile 2.0 also available)   |  |
|                | Enclosure                             |   |  |   |    |                      |     |                             |      |                             |                                 |   |          |        |                                 |   |   |  |
|                |                                       | 79  | <ul> <li>Aluminum enclosure (for dual coil)</li> <li>Aluminum enclosure</li> <li>Screw top aluminum enclosure (only available for 76 or 77 network protocol; only available for 2HEM position switches)</li> <li>Shaft output</li> </ul> |   |    |                      |     |                             |      |                             |                                 |   |          |        |                                 |   |   |  |
|                |                                       | 07  |  |   |    |                      |     |                             |      |                             |                                 |   |          |        |                                 |   | cor, only available for ZHEM position switches)   |  |
|                | S Standard (Double-D with 1/4" Flats) |   |  |   |    |                      |     |                             |      |                             |                                 |   |          |        |                                 |   |   |  |
|                |                                       |   |  | N | NA | NAMUR<br>None        |     |                             |      |                             |                                 |   |          |        |                                 |   |   |  |
|                |                                       |   |  |   |    | Bead                 | con |                             |      |                             |                                 |   |          |        |                                 |   |   |  |
|                |                                       |   |  |   |    | RG<br>FE<br>AB<br>AR | ВM  | 2-RG<br>2-Y-F<br>2-B<br>2-R |      | andard)<br>(French/English) |                                 |   |          |        |                                 | B3 BM3-3<br>B5 BM3-5<br>B7 BM3-7<br>B9 BM3-9<br>FC Flat cover<br>JB Junction box - flat cover, bushing plugged (use with '0' shaft output option) |   |  |
|                |                                       |   |  |   |    |                      |     | Cond                        | luit |                             |                                 |   |          |        |                                 |   |   |  |
|                |                                       |   |  |   |    |                      |     |                             |      | ne 3/4" N                   |                                 |   |          |        |                                 |   |   |  |
|                |                                       |   |  |   |    |                      |     | ZB                          |      | vo 3/4" N                   |                                 |   |          |        |                                 |   |   |  |
|                | Position switches                     |   |  |   |    |                      |     |                             |      |                             | a far 74 ar 77 Natural protocol |   |          |        |                                 |   |   |  |
|                |                                       |   |  |   |    |                      |     |                             |      | 2HEM<br>2HES                | 4 inp                           | 2 inputs / 2 outputs (only available for 76 or 77 Network protocol)<br>4 inputs / 2 outputs (not available for enclosure option 89)<br><b>On/off junction enclosure</b> |          |        |                                 |   |   |  |
|                |                                       |   |  |   |    |                      |     |                             |      |                             | 0                               |   |          |        |                                 |   |   |  |
|                |                                       |   |  |   |    |                      |     |                             |      |                             |                                 | 00 Not available<br>01 On/off junction enclosu  |          |        |                                 | nclosure  | 2   |  |
|                |                                       |   |  |   |    |                      |     |                             |      |                             |                                 |   | Coi      | l voli | tage                            |   |   |  |
|                |                                       |   |  |   |    |                      |     |                             |      |                             |                                 |   | 0        |        | one                             |   |   |  |
|                |                                       |   |  |   |    |                      | ~   | X 24 V DC (XF               |      |                             | n V valve body                  |   |          |        |                                 |   |   |  |
|                |                                       |   |  |   |    |                      |     |                             |      |                             |                                 |   |          |        | 2V3<br>3V3<br>5V3<br>3V4<br>2VY | 1.4 C <sub>v</sub> , 3<br>1.4 C <sub>v</sub> , 3<br>1.4 C <sub>v</sub> , 3<br>4.3 C <sub>v</sub> , 3<br>1.4 C <sub>v</sub> , 3                    | B-way, brass         2V7         1.4 Cv, 4-way, brass           -way, aluminum         3V7         1.4 Cv, 4-way, aluminum           B-way, 316 SS         5V7         1.4 Cv, 4-way, 316 SS           B-way, aluminum**         3V8         4.3 Cv, 4-way, aluminum           Jual coil, brass*         3V7         1.4 Cv, dual coil, aluminum*           Jual coil, 316 SS*         3V2         4.3 Cv, dual coil, aluminum* |  |
|                |                                       |   |  |   |    |                      |     |                             |      |                             |                                 |   |          |        |                                 | Valv  | e options   |  |
|                |                                       |   |  |   |    |                      |     |                             |      |                             |                                 |   |          |        |                                 | 0<br>M<br>L<br>R  | None<br>Momentary over-ride<br>Locking over-ride<br>Manual reset<br>Manual reset with latch<br>External pilot   |  |
| 77             |                                       | 75  |  | Ν |    | ΒY                   |     | 1B                          |      | 2HES                        | C                               | )1  | Х        |        | 3V3                             | L   | = Model number 7775NBY1B2HES01X3V3L   |  |

\* Dual Coil valve body options only available with enclosure '75'

\*\* 3V4 valves are 3V8 valves with ports 2 and 3 plugged at the factory for 3-way functionality.



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