Introduction

Dwyer Instruments has and continues to be a leading manufacturer of instrumentation for controlling and monitoring powder, dust, and powder materials. In this catalog you will find our most popular products for material handling and processing applications, many of which are designed specifically for use in dust collectors and pneumatic conveying systems.

Dwyer started in this industry with our very popular differential pressure gages and switch gages. The Magnehelic® gage and Photohelic® gage remain the workhorses of the industry and continue to exceed customer expectations due to their simple operation and robust design. New in this catalog you will find a digital Photohelic® gage, the series DH, and a digital Magnehelic® gage, the series DM2000. We have continually expanded our product offering for this industry to help serve our customers. With input from you we keep designing products that meet your specific application needs.

Featured in this catalog you will find our very successful DCT Series of timer controllers that far exceed the capabilities of other products on the market. The DCT Series timer controllers are easy to use, are cost effective, and offer a feature set tailored to your needs. Expanding our offering for pulse jet clean dust collection we have added, new this year, a complete line of pulse valves, solenoid valves, and bulk head connectors.

Our Proximity Controls Division has been manufacturing level controls for this industry since 1965. We have added both paddle and capacitive technologies to our Proximity offering in recent years. The new CLS2 capacitive level switch offers state of the art technology at an industry leading price making it ideal for use in pneumatic conveying systems.

We have always felt that the best does not have to cost you the most, and encourage you, the customer, to check our value and what we feel to be the most competitively priced products on the market.

Sincerely,
Dwyer Instruments Team

Trademark Acknowledgements

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Dwyer®, Digihelic®, Flex-Tube®, Mercoid®, Photohelic®, Minihelic®, Slant-Tube®, Rate-Master®, Slack Tube®, Saf-T-Ohm®, TM, ™, and ® are registered trademarks of Dwyer Instruments, Inc.

Trademark Acknowledgements

Information about Mercury-added Products

Dwyer Instruments, Inc. continues its development of non-mercury replacement alternatives for those products currently offered containing mercury. We will continue to work with all customers to supply mercury added products as needed for replacement of products currently in use and to guide customers towards non-mercury added products for new applications.

Dwyer Instruments, Inc. will comply with all local, state, federal, and international laws regarding the sale of mercury added products. Those laws may affect our ability to sell, distribute, or transport products into restricted states and/or countries. Mercury added product sales may be limited or denied to certain customers depending on the location or intended use of the product.

Dwyer Instruments, Inc. encourages all customers to become familiar and comply with all mercury legislation. Sales of any and all mercury added products will be discontinued to any customer that knowingly or willfully disregards any legislation concerning mercury.

Dwyer Instruments, Inc. requests that all mercury containing products are properly disposed of at the end of their useful life. Many web sites are available to help educate consumers about proper disposal of mercury added products. Please visit www.newmoa.org for addition information related to mercury usage.
POWDER, DUST & BULK MATERIALS
MEASUREMENT and CONTROL CATALOG

- Dust Collection
- Pneumatic Conveying
- Material Handling, Processing and Storage

Timer-Controllers
Pressure Gages
Pressure Switches
Pressure Transmitters
Level/Vibrators
Particulate/Air Velocity
Speed Sensors
Temperature/Power
Valves
Accessories

phone: 219/879-8000 | fax: 219/872-9057
www.dwyer-inst.com
Select the Dwyer® Magnehelic® gage for high accuracy — guaranteed within 2% of full scale — and for the wide choice of 81 models available to suit your needs precisely. Using Dwyer’s simple, frictionless Magnehelic® gage movement, it quickly indicates low air or non-corrosive gas pressures — either positive, negative (vacuum) or differential. The design resists shock, vibration and over-pressures. No manometer fluid to evaporate, freeze or cause toxic or leveling problems. It’s inexpensive, too.

The Magnehelic® gage is the industry standard to measure fan and pneumatic conveying systems.

NOTE: May be used with Hydrogen where pressures are less than 35 psi.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Range Inches of Water</th>
<th>Model Number</th>
<th>Range Center Inches of Water</th>
<th>Model Number</th>
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Zero Center Ranges

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<td>2000-80MM</td>
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<td>2000-100MM</td>
<td>0-100</td>
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</table>

Zero Center Ranges

| 2300-20MM1** | 0-10-10 |

NOTE: These ranges calibrated for vertical scale position. Accuracy ±2% • Accuracy ±4%
Combining clean design, small size and low cost with enough accuracy for all but the most demanding applications our Minihelic® II gage offers the latest in design features for a dial type differential pressure gage. It is our most compact gage but is easy to read and can safely operate at total pressures up to 30 psig. The Minihelic® II is designed for panel mounting in a single 2-1/16" diameter hole. Standard pressure connections are barbed fittings for 1/16" I.D. tubing; optional 1/8" male NPT connections are also available. Over-pressure protection is built into the Minihelic II® gage by means of a blow-out membrane molded in conjunction with the diaphragm. Accidental over-ranging up to the rated total pressure will not damage the gage. With removable lens and rear housing, the gage may be easily serviced at minimum cost.

With the housing molded from mineral and glass filled nylon and the lens molded from polycarbonate, the gage will withstand rough use and exposure as well as high total pressure. The 5% accuracy and low cost of the Minihelic® II gage make it well-suited for a wide variety of OEM and user applications. As an air filter gage, the Minihelic® II gage finds many end use applications. The Minihelic® II gage is suitable for many of the same applications as the Magnehelic® gage where the greater accuracy, sensitivity, and higher and lower differential pressure ranges of the Magnehelic® gage are not required.
Using solid state technology, the Series 3000MR and Series 3000MRS Photohelic® switch/gages combine the functions of a precise, highly repeatable differential pressure switch with a large easy-to-read analog pressure gage employing the durable, time-proven Magnephelic® gage design. Switch setting is easy to adjust with large external knobs on the gage face. Gage reading is unaffected by switch operation — will indicate accurately even if power is interrupted. Solid state design now results in greatly reduced size and weight. Units can be flush mounted in 4-5/8” (122 mm) hole or surface mounted with hardware supplied. 3000MR models may be used in filtration systems.

The Photohelic® Switch/Gages have been utilized for years as Hi/Lo limit controls combined with a timer board to provide on-demand cleaning in dust filtration systems.

### Standard Accessories
- Mounting ring, snap ring
- 16” (45 cm) cable assembly
- 2) 3/16” tubing to 1/8” NPT adapters
- 2) 1/8” NPT pipe plugs
- (4) 6-32 x 1 1/4” RH machine screws (panel mounting)
- (3) 6-32 x 5/16” RH machine screws (surface mounting)
- 1/8” FEMALE NPT HIGH PRESSURE CONNECTION
- 1/8” FEMALE NPT LOW PRESSURE CONNECTION
- 5-1/8” (130.16) B.C.
- 18” (46 cm) cable assembly
- Tamper-proof Knobs, adjustable knobs on face.

### SPECIFICATIONS

#### GAGE SPECIFICATIONS
- **Service:** Air and non-combustible, compatible gases.
- **Wetted Materials:** Consult factory.
- **Accuracy:** ±2% of full scale (3000-0 ±3% of full scale), (3000-00 ±4% of full scale).
- **Pressure Limit:** -20” Hg. to 25 psig (-0.67 bar to 1.72 bar). MP option; 35 psig (2.41 bar), HP option; 80 psig (5.52 bar).
- **Temperature Limits:** 20 to 120°F (-6.7 to 48.9°C).
- **Process Connections:** 1/8” female NPT (duplicated side and back).
- **Size:** 4” (101.6 mm) dial face, 5” (127 mm) O.D. x 3-1/8” (79.38 mm).
- **Weight:** 1.8 lbs (816 g).

#### OPTIONS — ACCESSORIES
- **Tamper-proof Knobs:** Required spanner type key (supplied) to change setpoints. Add suffix -TAMP.
- **Low Temperature Option:** For use under 20°F (-6.7°C). Add suffix -LT.
- **Medium Pressure:** Increases maximum rated pressure to 35 psig (2.41 bar). Add suffix -MP.
- **High Pressure:** Increases maximum rated pressure to 80 psig (5.52 bar). Add suffix -HP.
- **A-298 Flat Aluminum Bracket:** For flush mounting 3000MR/MRS. Add suffix -A298.
- **A-370 Mounting Bracket:** For flush mounting 3000MR/MRS bracket. Bracket is then surface mounted. Steel with gray hammertone epoxy finish. Add suffix -N.
- **A-600 R/C Snubber:** Recommended for inductive loads like a solenoid or contactor.
Model 1950 Explosion-Proof Differential Pressure Switch combines the best features of the popular Dwyer® Series 1900 pressure switch with an integral explosion-proof and weather-proof housing, making it an exceptional value for either application. It is CE, UL and CSA Listed, FM approved for use in Class I, Div. I, Groups C and D, Class II Groups E, F, and G and Class III hazardous atmospheres (NEMA 7 & 9), Raintight (NEMA 3). Weatherproof features include a drain plug and O-ring seal in cover. Electrical connections are easily made by removing front cover. For convenience the set point adjustment screw is located on the outside of the housing. Twelve models offer set points from .03 to 20˝ w.c. (0.035 to 5 kPa) and from .5 to 50 psi (0.035 to 3.5 bar). The unit is very light and compact — about half the weight and bulk of other explosion-proof or weather-proof switches with separate enclosures. The 1950 is a compact solution for monitoring filtration units that are located outdoors or in hazardous locations in the plant.

**SPECIFICATIONS**

**Service:** Air and non-combustible, compatible gases.

**Wetted Materials:** Contact factory.

**Temperature Limits:** -40 to 140°F (-40 to 60°C); 0 to 140°F (-17.8 to 60°C) for 1950P-8, 15, 25, and 50. -30 to 130°F (-34.4 to 54.4°C) for 1950-02.

**Pressure Limits:**
- Continuous: 1950's - 45˝ w.c. (0.11 bar); 1950P's - 35 psi (0.24 bar); 1950P-50 only - 70 psi (4.83 bar).
- Surge: 1950's - 10 psi (0.69 bar); 1950P's - 50 psi (3.45 bar); 1950P-50 only - 90 psi (6.21 bar).

**Enclosure Rating:** IP64, NEMA 3, 7 and 9.

**Switch Type:** Single-pole double-throw (SPDT).

**Electrical Rating:** 15 A @ 125, 250, 480 VAC, 60 Hz. Resistive 1/8 HP @ 125 VAC, 1/4 HP @ 250 VAC, 60 Hz.

**Electrical Connections:** 3 screw type, common, normally open and normally closed.

**Process Connections:** 1/8˝ female NPT.

**Mounting Orientation:** Diaphragm in vertical position. Consult factory for other position orientations.

**Set Point Adjustment:** Screw type on top of housing.

**Weight:** 3.25 lb (1.5 kg); 1950-02 model, 4.4 lb (2 kg).

**Agency Approvals:** CE, UL, CSA, FM.

### Model 1950

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Range, Inches W.C.</th>
<th>Approximate Dead Band at Min. Set Point</th>
<th>Approximate Dead Band at Max. Set Point</th>
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</thead>
<tbody>
<tr>
<td>1950-02-2S</td>
<td>0.03 to 0.10</td>
<td>0.025</td>
<td>0.05</td>
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<tr>
<td>1950-00-2F</td>
<td>0.07 to 0.15</td>
<td>0.04</td>
<td>0.05</td>
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<td>1950-0-2F</td>
<td>0.15 to 0.50</td>
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<td>1950-1-2F</td>
<td>0.4 to 1.6</td>
<td>0.15</td>
<td>0.20</td>
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<td>1950-5-2F</td>
<td>1.4 to 5.5</td>
<td>0.30</td>
<td>0.40</td>
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<tr>
<td>1950-10-2F</td>
<td>3 to 11</td>
<td>0.40</td>
<td>0.50</td>
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<tr>
<td>1950-20-2F</td>
<td>4 to 20</td>
<td>0.40</td>
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### Model 1950P

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<tr>
<th>Model Number</th>
<th>Range, PSID</th>
<th>Approximate Dead Band at Min. Set Point</th>
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<td>1950P-2-2F</td>
<td>0.5 to 2</td>
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<td>1950P-8-2F</td>
<td>1.5 to 8</td>
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<td>1950P-15-2F</td>
<td>3 to 15</td>
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<td>1950P-25-2F</td>
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<td>1950P-50-2F</td>
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<td>1.0</td>
<td>1.5</td>
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</table>

*CAUTION:* For use only with air or compatible gases. Applications with hazardous atmospheres and a single positive pressure may require special venting.

*P=PSID range models*
The Series 605 Magnehelic® Indicating Transmitter provides for both visual monitoring and electronic control of very low differential pressure. The Series 605 is ideal for control applications in systems where local indication is desired during routine maintenance checks or necessary when troubleshooting the system. The easily read dial gage is complimented by the two-wire, 4-20 mA control signal utilizing the time-proven Dwyer® Magnehelic® gage mechanical design and Series 600 transmitter technology. The two-wire design with terminal strip on the rear simplifies connection in any 4-20 mA control loop powered by a 10-35 VDC supply. The 605 provides both local indication of filter status as well as providing a signal back to the plant’s control network.

**ACCESSORIES**

A-298 Flat Aluminum Bracket, for flush mounting
A-370 Mounting Bracket, flush mount Series 605 Transmitter in bracket. Bracket is then surface mounted. Steel with gray hammertone epoxy finish.

**SPECIFICATIONS**

**GAGE SPECIFICATIONS**

- **Service:** Air and non-combustible, compatible gases.
- **Wetted Materials:** Consult factory.
- **Accuracy:** See chart.
- **Stability:** ±1% F.S./yr.
- **Pressure Limits:** See chart.
- **Temperature Limits:** 20 to 120°F (-6.67 to 48.9°C).
- **Process Connections:** 1/8˝ female NPT.
- **Size:** 4˝ (101.6 mm) dial face, 5˝ (127 mm) O.D. x 2-11/16˝ (68.3 mm).
- **Weight:** 1 lb, 12.6 oz (811 g).
- **Agency Approvals:** CE.

**TRANSMITTER SPECIFICATIONS**

- **Accuracy:** See chart (includes linearity, hysteresis, repeatability).
- **Temperature Limits:** 20 to 120°F (-6.67 to 48.9°C).
- **Compensated Temperature Range:** 32 to 120°F (0 to 48.9°C).
- **Thermal Effect:** ±0.025% F.S./°F (0.045% F.S./°C).
- **Power Requirements:** 10-35 VDC (2-wire).
- **Output Signal:** 4 to 20 mA.
- **Zero and Span Adjustments:** Protected potentiometers.
- **Loop Resistance:** DC; 0-1250 ohms maximum.
- **Current Consumption:** DC; 38 mA maximum.
- **Electrical Connections:** Screw terminal block.
- **Mounting Orientation:** Diaphragm in vertical position. Consult factory for other position orientations.

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**Model Number**  | **Range in w.c.**  | **Maximum Pressure**  | **Mechanical Accuracy +/-%**  | **Mechanical Accuracy +/-%**
--- | --- | --- | --- | ---
605-00N | 0.05-0.20 | 25 psi (1.7 bar) | 2 | 4
605-11 | 0.05-0.25 | 25 psi (1.7 bar) | 2 | 3
605-30 | 0.50-3.00 | 25 psi (1.7 bar) | 2 | 3
605-1 | 0.10-1.0 | 25 psi (1.7 bar) | 2 | 3
605-2 | 0.20-2.0 | 2 psi (13.79 kPa) | 0.5 | 2
605-5 | 0.50-5.0 | 2 psi (13.79 kPa) | 0.5 | 2
605-6 | 0.60-6.0 | 2 psi (13.79 kPa) | 0.5 | 2
605-10 | 0-10 | 2 psi (13.79 kPa) | 0.5 | 2

**Model Number**  | **Range in w.c.**  | **Maximum Pressure**  | **Electrical Accuracy +/-%**  | **Mechanical Accuracy +/-%**
--- | --- | --- | --- | ---
605-20 | 0-20.0 | 20 psi (1.4 bar) | 0.5 | 2
605-30 | 0-30 | 20 psi (1.4 bar) | 0.5 | 2
605-50 | 0-50 | 20 psi (1.4 bar) | 0.5 | 2
605-60PA | 0-60 | 2 psi (13.79 kPa) | 0.5 | 2
605-125PA | 0-125 | 25 psi (1.7 bar) | 2 | 4
605-250PA | 0-250 | 25 psi (1.7 bar) | 2 | 4
605-500PA | 0-500 | 2 psi (13.79 kPa) | 0.5 | 2

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**CALL TO ORDER:**  
U.S. Phone 219 879-8000  
U.K. Phone (+44) (0)1494-461707  
Asia Pacific Phone 61 2 4272-2055
Explosion-Proof Ultra-Mag™ Level Switches
For Powder & Bulk Solids

A unique Magnetic Linkage isolates the electrical compartment from controlled product, reducing maintenance and improving sensitivity. The sealed switch compartment and sealed leads yield the utmost in reliable operation. A wide selection of diaphragms and switches are available with choices of flange or suspension mounting to fit your specific application. The Series Ultra-Mag™ is ideal for level indication of difficult bulk material applications that would damage paddle or capacitive switches. The magnetic linkage makes this simple explosion-proof diaphragm switch the most rugged and reliable level control for a variety of products (see cut-away above).

Mounting Selection: A choice of either suspension or flange mounting is available to match your application. Flange mounting is the best choice for control of low or intermediate level in vessels containing granular product that does not “bridge”, “rathole”, or otherwise build up on vessel walls. Choose suspension mounting for high level in vessels and for better operation with “bridging” product. See following two pages for more information on suspension and flange mounting kits. Note that the mounting configuration is represented by the letter “S” for suspension or “F” for flange which is the second digit in the part number on page 56.

Diaphragm Selection: A wide variety of diaphragms are available to match product bulk density, flowability, abrasiveness and temperature requirements while providing maximum sensitivity. The best choice for vessels subject to pressure or vacuum is “breathable” fabric (P Series), requiring no venting. Non-porous elastomer (G Series) type diaphragms are the best choice for more abrasive product and broader temperature range applications. Venting is always required with the G series and if used in pressurized vessels, venting to the tank atmosphere is required to allow pressure equalization. A slide rule “Diaphragm Selector” is available from the factory to help you choose the diaphragm best suited to your application.

SPECIFICATIONS
Service: Compatible powder or bulk solids.
Wetted Materials:
Mounting Flange: See model chart on page 56. Aluminum or 304 SS.
Diaphragm: See model chart on page 56. Urethane, Buna-N, PTFE, Silicone Rubber, Polyester, Fluororelastomer, White Buna-N (food grade), or EPDM.
Temperature Limits: Depends on diaphragm material, see model chart on page 56. Standard switch: -40 to 185°F (-40 to 85°C), High temperature switch: -40 to 350°F (-40 to 176°C).
Pressure Limit: 60 psig (4.14 bar).
Enclosure Rating: General purpose or weatherproof and explosion-proof. See model chart on page 56.
Switch Type: See model chart on page 56.
Electrical Rating: See model chart on page 56.
Electrical Connections: 18 gage solid core, 600 volt TEW 105°C, style 1015. Epoxy sealed at conduit entrance. 12” (304.8 mm) long.
Conduit Connection: 1/2˝ female NPT.
Process Connection: For flanged models standard is 8-3/8” (212.725 mm) diameter bolt hole circle.
Mounting Orientation: Flange mount or suspend depending on model.
Set Point Adjustment: Internal screw.
Weight: 7 lb (3.18 kg).
Options: Suspension kits and flange adaptor rings.
Agency Approvals: UL and CSA.
A Total System For Your Dust Collector

**Diaphragm Pulse Valves, Series DCV/RDCV:** For air pulsing filters.
- Remote or integral coil
- NPT or Coupling Connection
- 3/4” to 3”

**Pilot Solenoid Valves, Series RSV:** For triggering remote coil diaphragm valves.
- Individual units or prepackaged into enclosures

**Digital Timers/Controllers, Series DCT1000:** For controlling pulsing of filters.
- For on-demand and continuous clean
- Optional pressure modules to eliminate separate pressure sensor
- 4 to 255 channel capability

**Differential Pressure Gages, Series 2000 Magnehelic® Gage:** For monitoring differential air filter pressure drop.

**Single Pressure Gages, Series 63000M:** For monitoring compressed air line.

**Pressure Switch/Gages, Series DH Digihelic® Controller:** One unit for both monitoring filter pressure drop and initiating on-demand cleaning.

**Pressure Switches, Series 1950:** For initiating on-demand cleaning.

**Differential Pressure Transmitters, Series 616:** For monitoring differential air filter pressure drop.

**Single Pressure Transmitters, Series 626, 628:** For monitoring compressed air line.

**Ball Valves, Series BV2MB:** For shutoff of compressed air line.

**Level Controls, Series PLS:** For monitoring product build up at the bottom of the collector or receiving vessel.

**Bulk Head Connectors, Series BHC:** For installation of blow tube through the filter.

**Particulate Transmitters, Series PMT:** For monitoring emissions and detecting broken filters.
FEATURES AND BENEFITS
The QUICK-VIEW® Rotary Valve Position Indicators, now UL and CSA rated, are produced by Proximity with up to four individual mechanical or proximity switches. The QUICK-VIEW® indicator is also available with optional backlighting. Benefits include:
• The lowest cost position indication.
• Extremely compact design.
• Easily interchangeable with key competition.
• backlighting option available for maximum visibility.
• QUICK-VIEW® Indicator and mounting kits, including NAMUR kits, are stocked for fast delivery.
• Flame retardant.
• UV protection.
• Hazardous location option.

APPLICATIONS
The QV Series Proximity Position Indicators are designed for maximum reliability in general purpose and corrosive environments. Applications include: rotary and linear valves, actuators, manual valves, gear operators and positioners.

Consult factory for optional VI colors.

### COMPLETE MODEL CHART

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Backlighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>QV-210101</td>
<td>No</td>
</tr>
<tr>
<td>QV-210111</td>
<td>Yes</td>
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**Note:** Stocked position indicators include two 10 amp SPDT mechanical snap switches, are direct drive type and include the standard quarter-turn OPEN/CLOSED visual indicator. Standard units are CSA & UL approved but not for hazardous locations. Specify “EX” for hazardous location option.

![Diagram of QUICK-VIEW® Valve Position Indicator/Switch](image)

**SPECIFICATIONS**
- Minimum Rotation Travel – Switches only: 5°.
- Maximum Rotation Travel – Switches only: 360°.
- Temperature Limits: -40 to 180°F (-40 to 82°C).
- Switch Type: SPDT.
- Electrical SPDT Switch Ratings:
  - QV-X1XXXX: 10A @ 125/250 VAC, 0.5A 125 VDC; 10A @ 24 VDC mech. switch.
  - QV-X2XXXX: 1A @ 125 VAC, 1A @ 24 VDC mech. switch.
  - QV-X3XXXX: 2A @ 125 VAC, 2A @ 30 VDC prox. switch.
  - QV-X4XXXX: 5-25 VDC NAMUR sensor.
  - QV-X5XXXX: 10-30 VDC INDUCTIVE sensor.
- Lighting Supply Voltage: 24-28 VDC.
- Enclosure Material: Polycarbonate housing and conduit.
- Conduit Entrance: One 3/4˝ NPT.
- Enclosure Rating: NEMA 4, 4X. Optional explosion-proof, rated:
  - Class I, Groups A, B, C, D; Class II, Groups F & G; Div. 2.
- Maximum Altitude: 2000 m (6560 ft).

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model Number Prefix</th>
<th>1st Code (1st X)</th>
<th>2nd Code (2nd X)</th>
<th>3rd Code (3rd X)</th>
<th>4th Code (4th X)</th>
<th>5th Code (5th X)</th>
<th>6th Code (6th X)</th>
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<tbody>
<tr>
<td>QV</td>
<td>Number of Switches</td>
<td>Switch Type</td>
<td>Number of Switches</td>
<td>Driving Style</td>
<td>Lighting Option</td>
<td>Visual Indication</td>
<td>Additional Options</td>
</tr>
</tbody>
</table>

**Note:** The 1st, 2nd, 3rd, and 6th codes can not all be zero.

+ EX, Explosion-proof option available.