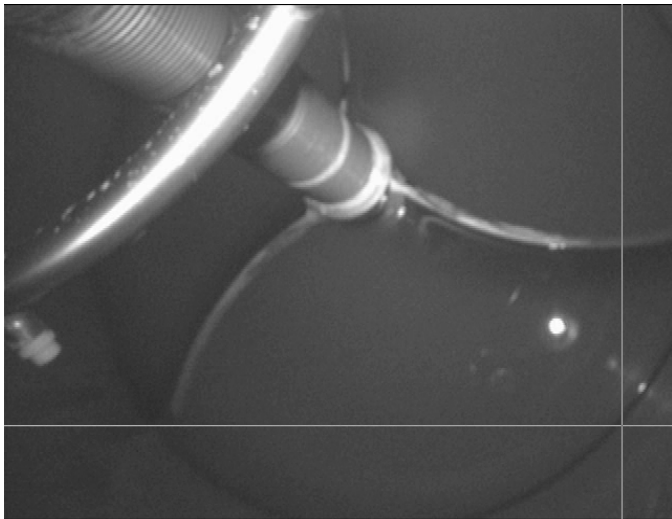


CANTY

PROCESS TECHNOLOGY

NON CONTACT LIQUID LEVEL DETECTION



FEATURES

- FM, CSA and approvals to CENELEC on various models. World wide approval!
- Standard Flange Pressure 150 PSI, 300 PSI up to ratings of 10,000 PSI models are Available
- 450°F Standard Capabilities (up to 2000°F models Available)
- 2" NPT, 2" flange and larger, 2" Tri-Clamp® and larger connections are available.
- Ethernet color high resolution CCD camera includes imaging software.
- Remotely view your process from the comforts of a control room
- Single nozzle viewing/illuminating (with light)
- Spray rings are available to keep your window clean

APPLICATIONS

- Polymers - Level & Verify Empty
 - Crystallizers - Liquid & Foam Level
 - Fermentors - Liquid & Foam Level
 - High Purity Pharmaceutical - Level & Verify Empty
 - Biotech - Level & Verify Empty
 - Foam & Fluid Level Monitoring
- | | |
|-----------------|--------------------|
| Shredders | Hoppers |
| Nutsche Filters | Latex Applications |
| Strippers | Pressure Vessels |

CUSTOMER PROBLEMS

An adhesives company had a costly problem with one of its products with regard to process level control. Due to the viscous, sticky nature, and foaming of the product it coated floats and probes rendering those types of process level control instruments ineffective. DP and ultrasonic devices would not operate during foaming conditions internally. Nuclear devices were not an attractive alternative due to the many regulatory and safety concerns they impose. Operators controlled the process by observing the reactor level out in the plant at various times. This type of control proved grossly inefficient and severely limited process output.

CUSTOMER SOLUTION

Installation of a Canty Vision system with a Jet Spray Ring through an existing nozzle provides operators with a continual view of the process from the control room allowing them to make process decisions and observations at any time during the batch. Subsequent addition of a Canty Vector system provides for continuous process level and foam detection which leads to increased process output and efficiency.

SPECIFICATIONS

- Video Formats: Ethernet outputs, NTSC, or PAL available.
Video Output: Ethernet output to PC available or 1.0 V p-p, 75 ohm(NTSC, PAL models)
Cable: RG59/U, RG11/U, RG6/U coaxial cable suitable for CCTV applications is recommended for analog cameras. Ethernet cameras require CAT6 or better cabling.
Power Req.: User supplies 120 VAC, 60 Hz or 230 VAC, 50 Hz power. Canty supplies transformer to 12 VDC, .5A Typ.
Ratings: Available in NEMA 4x or IP66 enclosures
Requirements: Electronics housing-supply 90 PSI, 8 SCFM clean, dry instrument air.
Insertion lens - may require 13 SCFM clean, dry gas depending on application.

SAFETY IS A PRIMARY CONCERN

Canty Camera Systems feature a fused glass seal standard with every model. This unique seal provides an impenetrable safety barrier to protect the camera electronics from the harsh process environment.

CANTY

JM Canty Inc | Buffalo, NY USA
JM Canty Intl Ltd | Dublin, Ireland

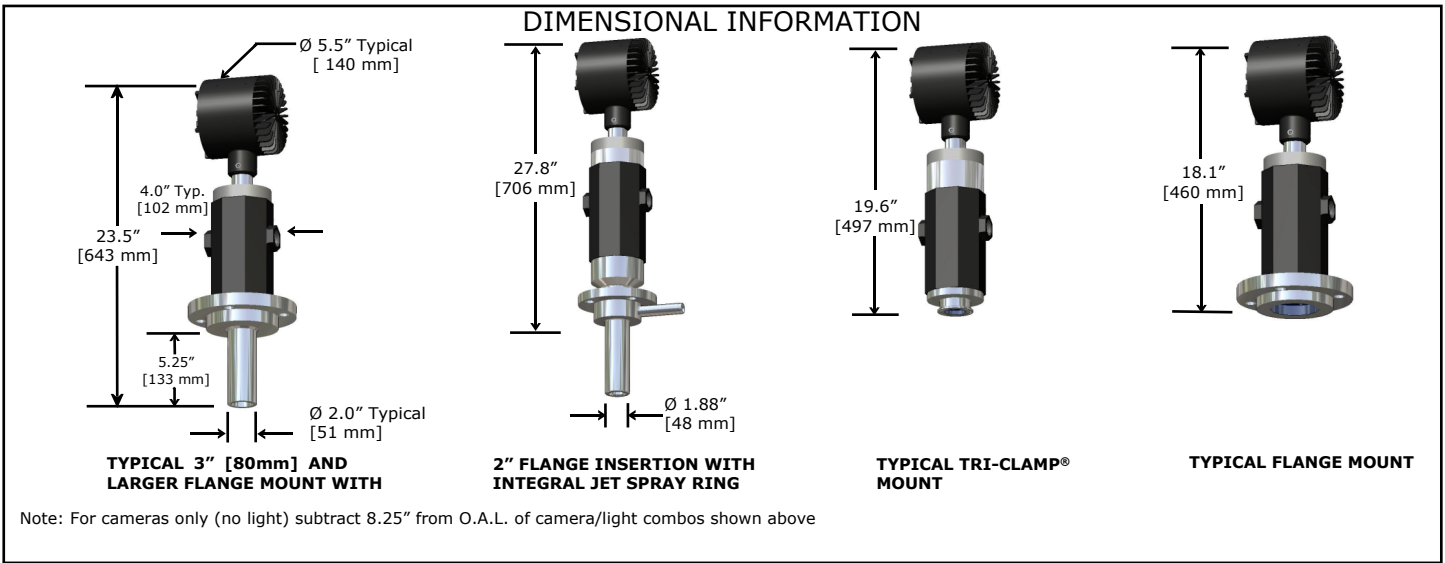
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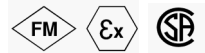


Ordering Information

HOW TO ORDER: Select the appropriate symbols and build a part number as shown:

EXAMPLE:

V 6 B 2 1 B D 1 J



VISION SYSTEM
 V - NORTH AMERICAN STANDARD
 VE - EUROPEAN STANDARD

ENVIRONMENTAL RAITINGS
 6 - NEMA 4 WEATHER PROOF, IP66
 7 - EXPLOSION PROOF (US) OR FLAME PROOF (EUROPE)

CAMERA OPTIONS
E - ETHERNET COLOR NETWORK VIDEO CAMERA
 L - LOW LIGHT B & W CAMERA
 C - COLOR CAMERA
 I - INFARED (NEAR) B & W
 B - B & W CAMERA

LENS OPTIONS
 2 - 56° (H) x 43° (V) X 69° (D)
 3 - 69° (H) x 53° (V) X 80° (D)
 6 - 41° (H) x 31° (V) X 50° (D)

CAMERA POWER SUPPLY OPTIONS
 1 - USER SUPPLIES 120V AC. POWER SUPPLY IN A NON WP OR EXP ENCLOSURE. USER PROVIDES ENCLOSURE AND SWITCH AS NEEDED
 2 - NO POWER SUPPLY REQUIRED
 5 - USER SUPPLIES 120V AC. POWER SUPPLY IN A WP ENCLOSURE
 6 - USER SUPPLIES 240V AC. POWER SUPPLY IN A IP/WP ENCLOSURE
 7 - USER SUPPLIES 120V AC. POWER SUPPLY IN A EXP ENCLOSURE. PSU ENCLOSURE IS RATED CLASS I, DIV 1, GROUPS C & D.
 8 - USER SUPPLIES 240V AC. POWER SUPPLY IN A NON WP OR EXP ENCLOSURE. USER PROVIDES ENCLOSURE AND SWITCH AS NEEDED

WETTED MATERIAL OPTION
 B - 316L STAINLESS STEEL*
 D - HASTELLOY® C-276 OR EQUAL
 E - HASTELLOY® C-22® OR EQUAL
 F - GLASS (BOROPLUS)**

LIGHT OPTIONS
 G - HYL 80 1SRDO (240 V)
 J - HYL 80 1SRDO (120 V)
 N - CAMERA ONLY - WILL NOT ACCEPT AN INTEGRAL LIGHT
 0 - COMBO W/O LIGHT - WILL ACCEPT AN EXISTING LIGHT (NOTE: WITHOUT A LIGHT SOURCE THE CAMERA CANNOT MAINTAIN WP OR EXP INTEGRITY)

NON WETTED METAL MATERIAL***
 0 - NO FLANGE REQUIRED - NPT OR TRI-CLAMP® MODELS
 1 - 150# CARBON STEEL ANSI FLANGE
 2 - 150# 316L STAINLESS STEEL ANSI FLANGE
 3 - 300# CARBON STEEL ANSI FLANGE
 4 - 300# 316L STAINLESS STEEL ANSI FLANGE
 6 - 16 BAR CARBON STEEL DIN FLANGE
 7 - 16 BAR STAINLESS STEEL DIN FLANGE
 8 - 10 BAR CARBON STEEL DIN FLANGE
 9 - 10 BAR STAINLESS STEEL DIN FLANGE

MOUNTING CONNECTION
 B - 2" NPT, 5.25" INSERTION
 C - 3" ANSI FLANGE
 D - 4" ANSI FLANGE
 E - 2" ANSI FLANGE
 F - 3" ANSI FLANGE, 5.25" INSERTION
 G - 100 mm DIN FLANGE
 H - 4" ANSI FLANGE, 5.25" INSERTION
 J - 100 mm DIN FLANGE, 5.25" INSERTION
 K - 2" ANSI FLANGE, 5.25" INSERTION
 M - 3" TRI-CLAMP® 5.25" INSERTION
 P - 4" TRI-CLAMP® 5.25" INSERTION
 U - 4" TRI-CLAMP®
 Q - 80 mm DIN FLANGE
 S - 80 mm DIN FLANGE, 5.25" INSERTION
 T - 2" ANSI FLANGE, 5.25" INSERTION, WITH INTEGRAL SPRAY RING
 2 - 2" TRI-CLAMP®
 3 - 3" TRI-CLAMP®

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*Canty reserves the right to upgrade to Hastelloy®C family of Alloys or equal at their own cost
 **Not available with all models
 ***450°F to -450°F is standard temperature, pressure is 150# = 150 PSI ect. Higher pressures and temperatures available