## LIMIT SWITCH WATCHMAN SERIES

## Alloy Valves and Control

## The Reliable Choice

The AVCO Watchman has been designed to provide the most visible and reliable valve position indication in general purpose applications．With a wide variety of switches and sensors available to match your application，the Watchman is the best choice． Features Include：
® CSA Certified for General Purpose applications
『 Patented Engineered Loc－Ring Cam and Shaft Retention System provides unsurpassed sensing accuracy over the multi－million cycle life of the physical platform．
® Clear Ektar Cover offers optimum chemical resistance and strength and is environmentally sealed to prevent fogging or entry of contaminants．
® Careful material selection provides the unique patented indicator a rated life of minimum 1，000，000 cycles．
－Materials of construction selected to excel in high vibration，corrosive and dirty environments，either indoors or outdoors．

Q Indicator is fully adjustable to any valve or actuator．
区 Internal Switches and terminal block are labeled for easier installation．
© The industry＇s only＂true＂visual valve position indicator available for multi－port valves，adjustable to match the actual physical flow pattern of the valve．
区＂Flat cover＂version is available without an indicator for areas with tight space requirements．

## Material Specifications

－Enclosure－Aluminum with 2－part Polyurethane Paint
® Shaft－ 303 or Optional 316 Stainless Steel
》 Shaft Locking Ring－Stainless Steel
《 Indicator Cover－Ektar Copolyester
《 Bearing－Bronze or Optional 303 Stainless Steel
『 Fasteners－ 316 \＆18－8 Stainless Stee
® O－rings－BUNA－N or Optional Viton
® Cams and Splines－Acetal


## Certified Configurations

区 2 or 3－1／2＂NPT Conduit Entries
『 1，2， 3 or 4 Mechanical SPDT Switches．
® 1 or 2 Tungsten or Rhodium TTL Hermetically Sealed Proximity Switches
－ 1 or 2 DPDT Mechanical Switches
－1，2， 3 or 4 Inductive Proximity or Intrinsically Safe Sensors
© Standard NAMUR，Low Profile NAMUR or Standard Shaft（1／4＂flats）
－4－20mA Transmitter or 0－1k or 10k ohm High Linearity Potentiometer for 0－100\％Analog Output

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## $>$ <br> Open/Closed and 3-Way Path Indicators



Intelligent Part Number System


| Description | Code | Description | Code | Description | Code |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Series: Watchman | F | Bearing |  | Conduit Connection |  |
| Limit Switch |  | Bronze | B | 2-1/2" F NPT | 0 |
| With Indicator | M | 303 Stainless | S | 3-1/2" F NPT | 6 |
| Flat Cover | F | Shaft |  | 1-1/2" F NPT + |  |
|  |  | Standard 303 SS | 1 |  | 8 |
| Indicator Type (open/Closed) |  | Standard 316 SS | 3 | Options |  |
| No Indicator (Flat Cover) <br> Black / Yellow (Standard) | N | Low Profile NAMUR 303 SS | 5 | Transmitter 4-20mA | -420 |
| Green/Red | A | Low Profile NAMUR 316 SS | 7 | Potentiometer $0-1 \mathrm{k}$ | - 1K |
| Red/Green | C | NAMUR 303 SS | E | All Viton Seals | -V |
| 0-100\% Digital | P | NAMUR 316 SS | G | 12 Terminal Points | -12T |
| 3-Way Path O (90 deg.) | 0 | Switch/Sensor Type |  | 16 Terminal Points | -16T |
|  | T | Mechanical SPDT 15A-250VAC | 1 | High Temperature |  |
| $3-$ Way Path F (90 deg.) | F | Mechanical SPDT 0.5A-125 VDC | C |  |  |
| 4-Way Path S (90 deg.) | S | PRISM SPDT Gold Plated 1A-24VDC | 3 |  |  |
| 180 degree T-port | 1 | ITW Mechanical DPDT 10A-250VAC | 4 |  |  |
| 180 degree L-Port - OcOc | 5 | Tungsten TTL Prox 3A-125 VAC | 2 |  |  |
| 180 degree L-Port - OOcc | 6 | Rhodium TTL Prox 1A-24VDC | T |  |  |
| ANSI Green / White | G | P\&F NJ2-V3-N, NAMUR | 8 |  |  |
| ANSI Blue / White | B | Sensor Quantity | 1-4 |  |  |
| ANSI Red / White | R | Sensor Quanty |  |  |  |

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