



BrayLINE
ACCESSORIES

SERIES 50 - 0400, 0700
WITH MICRO SWITCHES,
PROXIMITY & PNEUMATIC SWITCHES

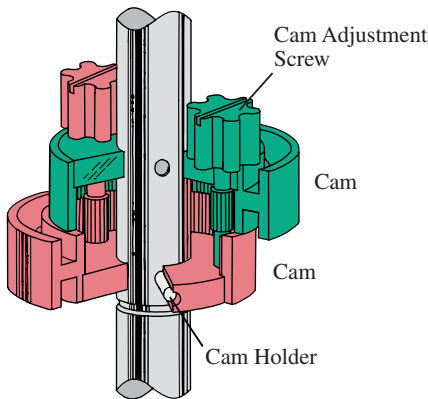
VALVE STATUS MONITORS

NEMA 4, 4X & 4,4X,7,9

FEATURES

Bray Controls is proud to offer the Brayline Series 50 Valve Status Monitor, the future of valve position signaling. Bray's extensive field experience, research and development has produced the finest multi-purpose switch/control monitors for industrial plant automation. The Series 50 signals actuator and valve position to local and remote stations. The Series 50-0400 unit has a die cast aluminum housing which is waterproof (NEMA-4,4X). The Series 50-0700 housing is also die cast aluminum and rated waterproof and explosion proof (NEMA-4,4X,7,9).

The units have been designed for ease of wiring and a wide variety of switches. Both feature the same high quality internal parts and the same rugged reliability.



(A) CAMS / CAM ADJUSTMENT

Featured in the Series 50 Valve Status Monitors are Bray's uniquely designed cams. A cam for each switch is mounted directly to the output shaft and each cam is color coded – red adjustment screw matches red cam (which closes valve), green screw matches green cam (which opens valve). The cams are *infinitely* adjustable from the top by finger touch or regular screw driver with no special tools needed. The adjustment screws rotate the eccentric shaped cams. The cams will not slip out of adjustment from line vibration. Standard factory settings are to the open and closed positions for 90° travel. To adjust the cams, first loosen the locking screw, make cam adjustment then retighten locking screw.

(B) O-RING SEALS Seals on the shaft and housing provide a waterproof enclosure and prevent internal corrosion.

(C) SHAFT BEARINGS The Series 50-0400 has acetal bearings on the top and bottom of the shaft which reduce friction and eliminate shaft binding.

(D) SWITCHES Both Valve Status Monitors come standard with 2 SPDT Micro switches. For other available switches consult the back page of this brochure.

SERIES 50-0400

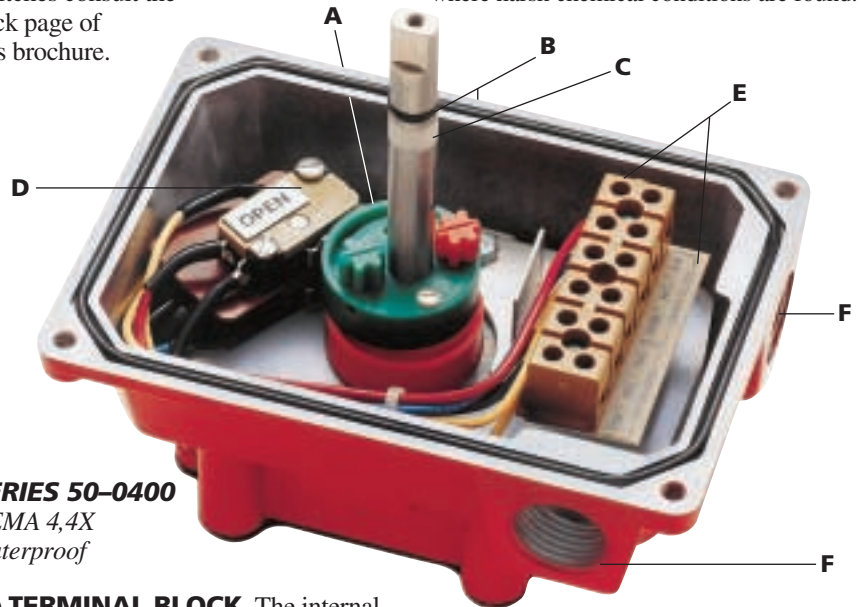
NEMA 4,4X
Waterproof

(E) TERMINAL BLOCK The internal switches are pre-wired to a terminal block. The block has been designed for ease of wiring installation with clearly marked wire numbers for both open and closed switches.

(F) CONDUIT ENTRIES For ease of wiring, the Series 50 features two conduit entries. The Series 50-0400 unit has M20 conduit connections, and the Series 50-0700 has M25 conduit connections.

SERIES 50-0400

This waterproof NEMA-4,4X rated unit is designed to meet IP 65. The Series 50-0400 features a die cast aluminum housing coated with a chemical resistant epoxy for further protection. The Series 50-0400 is an excellent choice for use in a wide range of applications particularly where harsh chemical conditions are found.



SERIES 50-0700

The Series 50-0700 Valve Status Monitor is for application in hazardous locations. The waterproof/explosion proof housing is certified to meet NEMA-4, 4X, 7, 9, and UL, CSA Class I: Groups C&D, Class II: Groups E, G & G, Div. 1&2. The housing contains bronze bearings, top and bottom, which meet flame path requirements.



SERIES 50-0700

NEMA 4,4X,7,9
Explosion Proof

SWITCHES

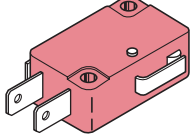
MICRO SWITCHES

Economical switches with the highest current ratings on the market.

2, V3 TYPE SPDT SWITCHES

Contact material is fine silver.
Max. Rating: 15A-120/250 VAC
15A-24VDC

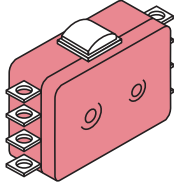
Max. Temperature: 176°F (80°C)
4 or more switches are available.



2, TYPE DPDT SWITCHES

Contact material is fine silver.
Max. Rating: 10A-120/250 VAC
10A-24VDC

Max. Temperature: 158°F (70°C)

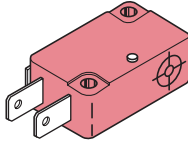


PROXIMITY SWITCHES

Sealed against explosive gases and liquids, these switches offer long, trouble free life.

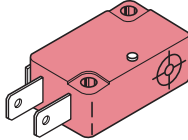
2, V3 TYPE N INDUCTIVE SWITCHES

(Intrinsically safe)
Supply Volts: 5-25VDC
Nominal Voltage: 8VDC
Load Current: <1mA >3mA
Max. Temperature: 212°F (100°C)
Other types available, consult factory.



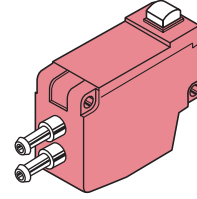
2, V3 TYPE E2 INDUCTIVE SWITCHES

Supply Volts: 5-25VDC
Nominal Voltage: 8VDC
Load Current: <1mA >3mA
Max. Temperature: 212°F (100°C)
Other types available, consult factory.



PNEUMATIC SWITCH

For hazardous locations.
2 switches are provided with 2 ports and vents.
Rating: 150 psi (10 bar)
Connections: 1/8" NPT
Max. Temperature: 176°F (80°C)



POTENTIOMETER

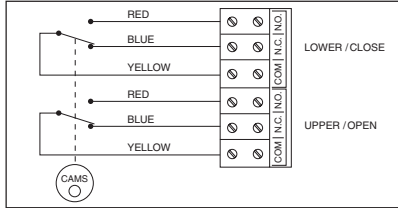
For analog feedback of precise valve position a potentiometer can be mounted within the Series 50-0700 housing. The standard value is 1000 ohms, and the standard power rating at 158°F (70°C) is 1 watt.

REED SWITCHES

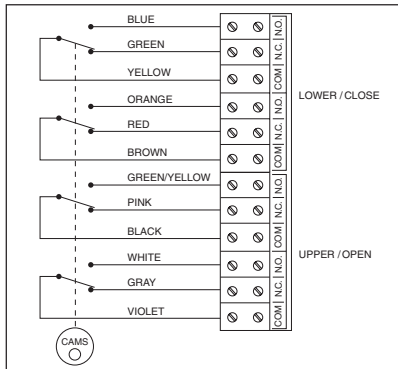
2 magnetic reed switches (hermetically sealed) are available upon request.

MICRO SWITCHES

SPDT

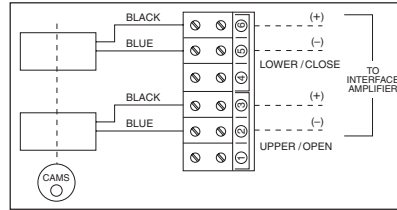


DPDT

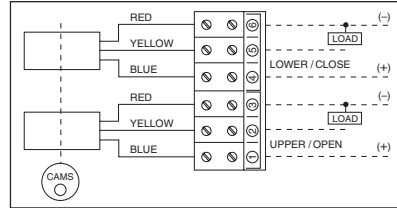


PROXIMITY SWITCHES

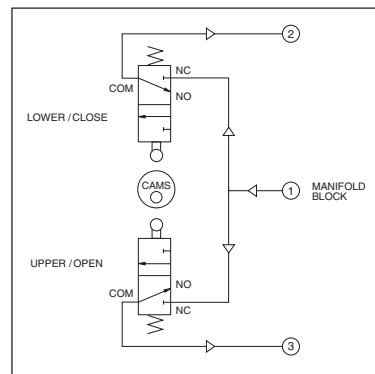
2 WIRE TYPE N



3 WIRE TYPE E2



PNEUMATIC SWITCHES



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United States patent number 5,305,781.

Other patents issued and applied for worldwide.

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