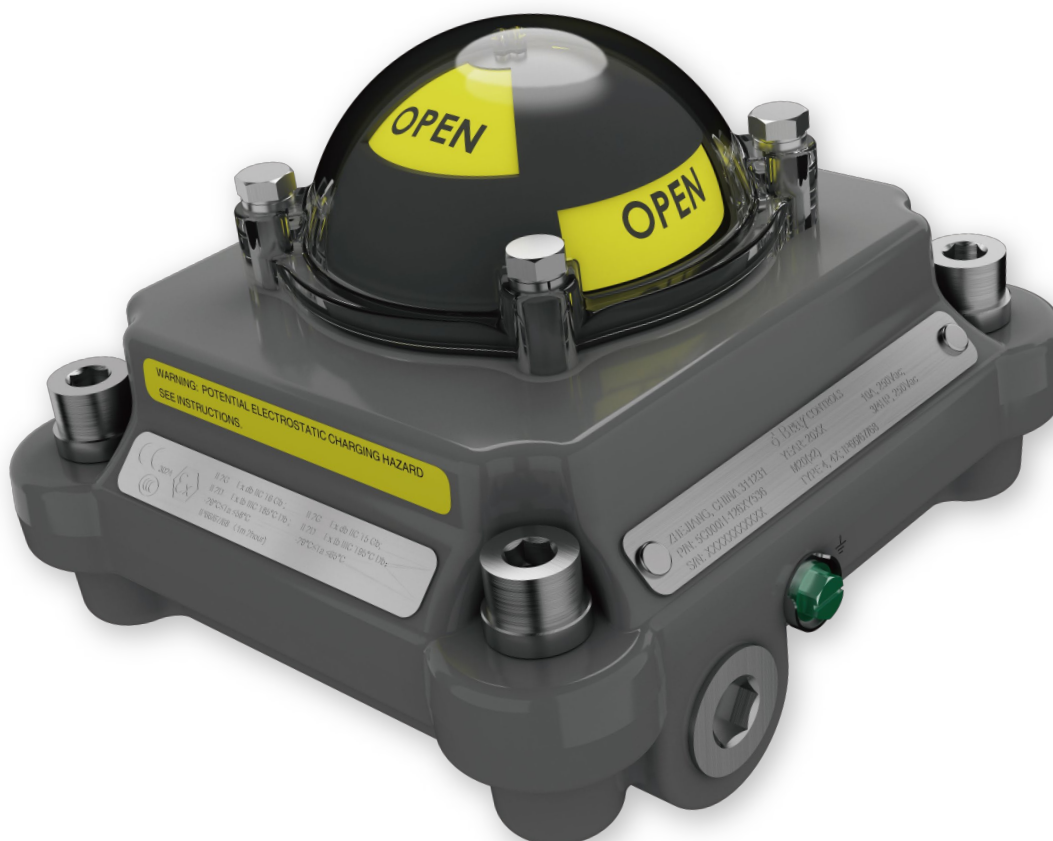

SERIES 5CS

VALVE STATUS MONITOR



Bray[®]

BRAY.COM

THE HIGH PERFORMANCE COMPANY

INTRODUCTION

The Bray Series , 5CS Valve Status Monitors (VSM) provide reliable visual and electrical position indication on any VDI/VDE 3845-compliant quarter-turn device. Series 5CS offers lightweight, compact housing to fit the tightest spots. explosion-proof provides unparalleled protection and reliability during service in the harshest environments. Our solutions enable end users to better monitor their process, no matter the conditions.

CERTIFICATIONS

- IP66/67/68
- ATEX
- IECEx
- CE
- CCC



FEATURES

1 Enclosure

The compact low profile weatherproof VSM is ATEX certified IP66/67/68. A die-cast aluminum cover and base coated with a polyester powder coat for exceptional corrosion, wear, impact and ultraviolet resistance.

2 High Visibility Position Indicator

Visual open and closed indication is provided with an impact resistant dome style indicator. Inverting the open and closed visual output is easily done by removing the dome and rotating it 90 degrees. There is no need to remove the cover and expose internal wiring of the VSM to change position indication.

3 Captive Cover Bolts

The cover is attached to the base by captive stainless steel bolts placed outside the sealing area.

4 O-Ring Seal For Watertight Enclosure

The O-ring seal between the cover and base provides a weatherproof seal preventing internal corrosion.

5 Sensor Cams

Splined cam design allows for easy and accurate setting of switch activation without the use of tools.

6 Limit Switches

Multiple switch options and configurations to meet connectivity requirements.

7 Terminals

Clearly marked terminal blocks are elevate towards the user to ensure easy access.

8 Conduit Entries

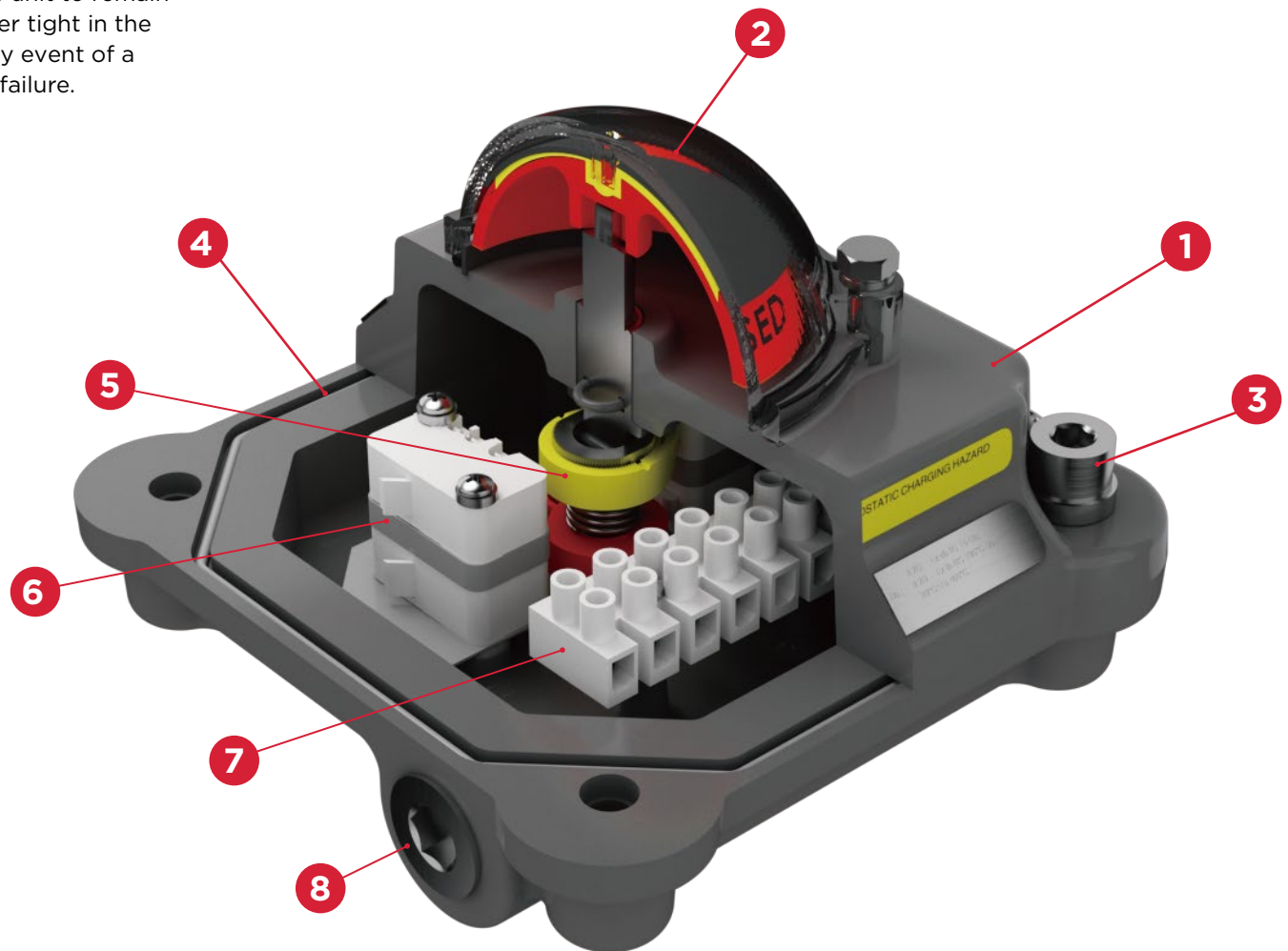
Conduit entries available in metric threads.

9 Grounding

Green color-coded, easy-access grounding bolt.

Double Seal

Secondary seal allows for the unit to remain weather tight in the unlikely event of a dome failure.

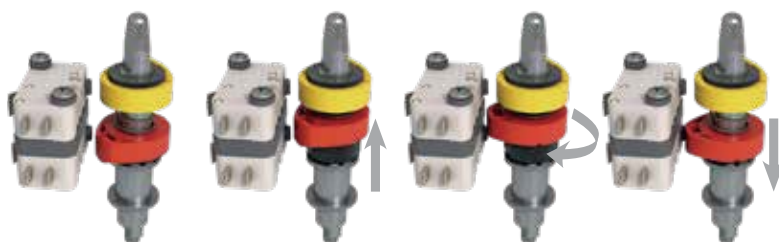


SERIES 5CS

- Explosion-proof housing
- Multiple switch options
- Compact housing

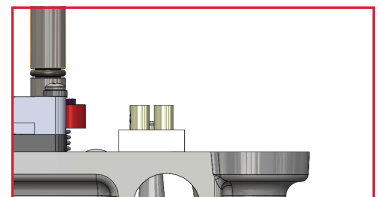
Cam Adjustment - No Tools Required

Adjust the cams by simply pressing, turning, and releasing at a new position. No tools required.



Easy Access Terminals

Angled up for easier field wiring.

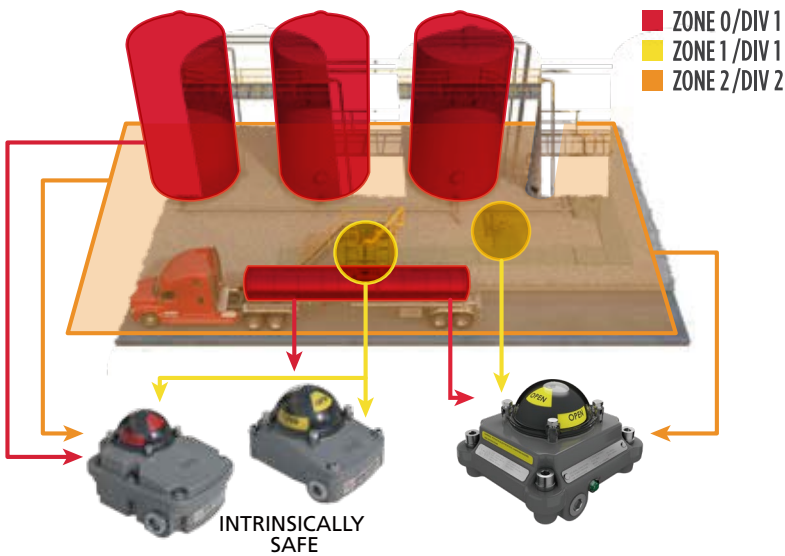


HAZARDOUS LOCATION PROTECTION

Hazardous locations, defined as any location where there is risk of explosion or fire, require the toughness and dependability of the Bray Series 5CS Valve Status Monitors (VSMs). The atmosphere in a hazardous location may contain flammable concentrations of gases or vapors (Class I), or ignitable concentrations of dust (Class II) or fibers (Class III).

There are different models for classification depending on the market region. In North America, hazardous locations are broken down into Division 1 or Division 2 based on the probability of the presence of hazardous substance. In Europe, locations are broken down into three Zones, also based on the probability of risk. There is further classification for the dangerous substances as Groups.

Protection methods differ depending on the demands of the environment and customer application. The Bray Valve Status Monitors offer options for Intrinsically Safe protection, as well as Explosion-proof and dust protection.



Area Classification		Criteria
Division1	Zone 0	Combustible substances are present continuously or for long periods of time.
	Zone 1	Combustible substances likely exist.
Division 2	Zone 2	Combustible substances are not likely to exist.

5CS: Explosion-Proof

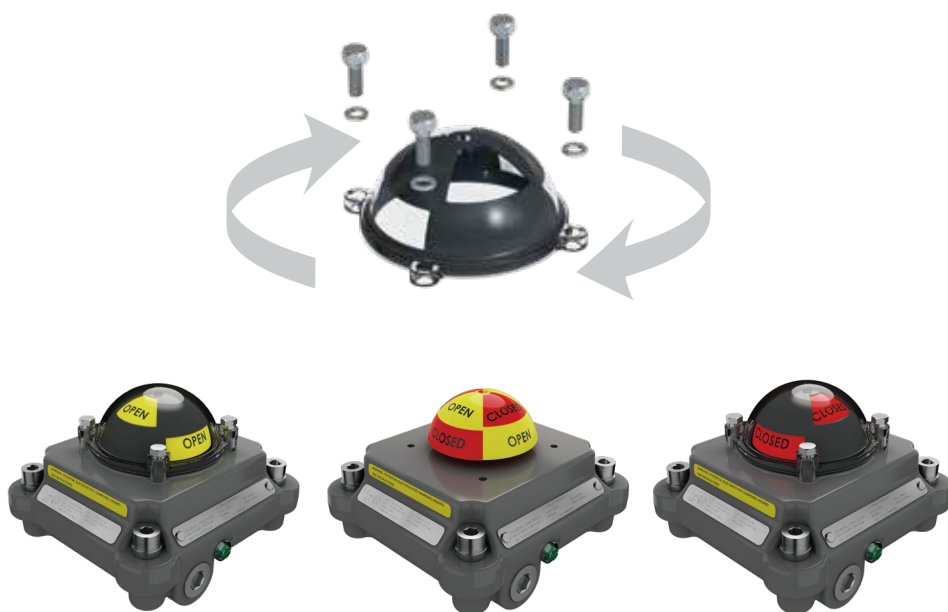
The Series 5CS certified Flameproof (Ex d) and dust protection (Ex t) valve status monitor are designed to contain any explosions that may occur within the enclosure. The Series 5CS valve status monitor shares much of its design with the Series 5A/5B VSM. The Series 5CS explosion-proof housing for several switch options, offering exceptional safety, flexibility and durability. The Series 5CS also features improved certificates including dust protection, a higher gas rating, and ATEX/ IECEx for more global applications.

ATEX	II 2 G Ex db IIC T6 Gb
IECEx	II 2 D Ex tb IIIC T85°C Db IP66/67/68



FLEXIBLE MOUNTING OPTIONS

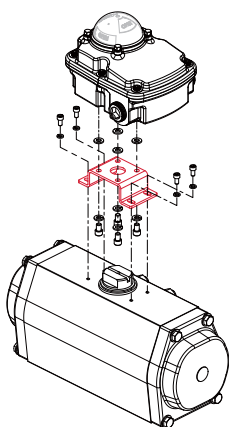
Users have the ability to mount the VSMs in both perpendicular and parallel orientations without changing brackets. The visual indication can also be inverted without removing the cover. This is done by rotating the indicator dome 90 degrees.



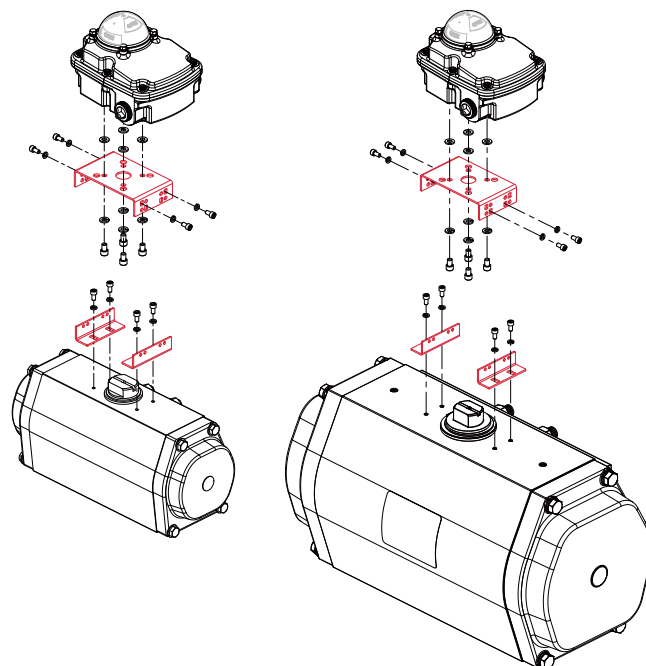
UNIVERSAL NAMUR MOUNTING BRACKET

Bray's VSMs can be mounted to most NAMUR compliant rack and pinion, scotch yoke and other quarter-turn actuators.

> Fixed Bracket



> Adjustable bracket for both 30x80 and 30x130 NAMUR mounting pads (fits all S92/93/98 actuators)



> Common mounting F05 pattern ISO5211

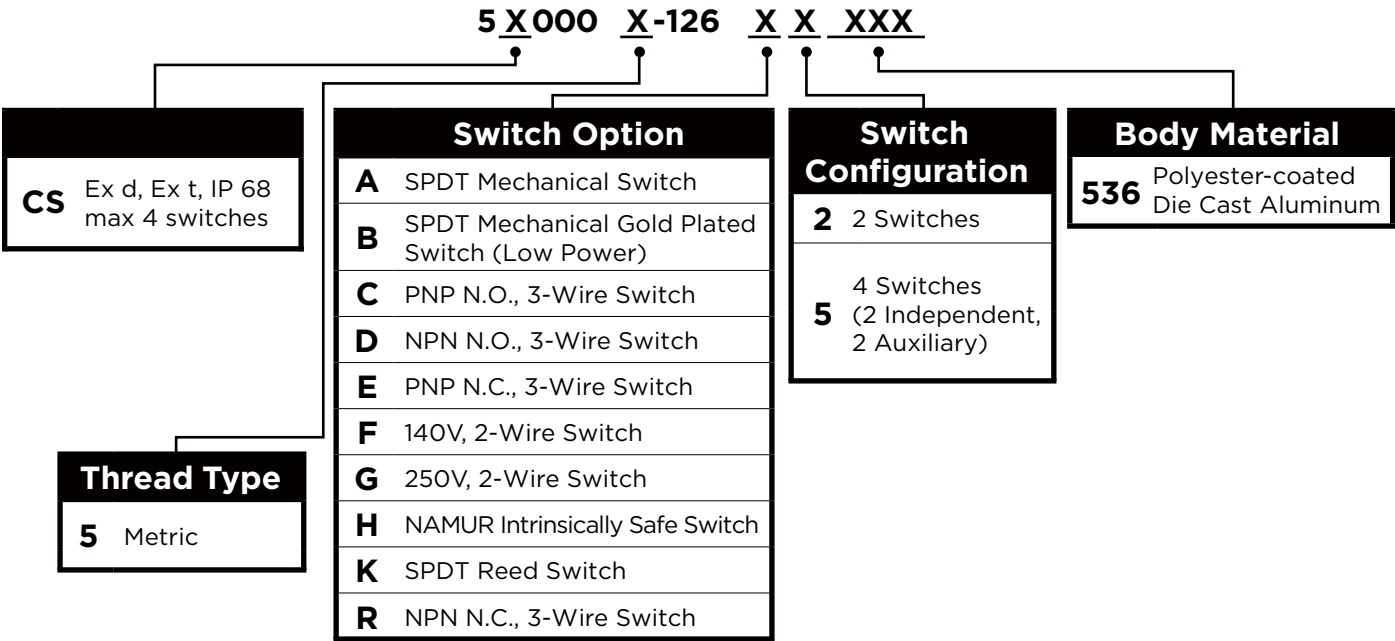


INDICATION SWITCH OPTIONS

Bray's VSM product line is offered with multiple indication switch options to better suit the end user's requirements.



		Series 5CS Recommend	Series 5CS Max Qty.
MECHANICAL SWITCHES	SPDT Mechanical Switch	2	4
	SPDT Mechanical Gold Plated Switch (Low Power)	2	4
PROXIMITY SWITCHES	PNP N.O., 3-Wire Switch	2	4
	NPN N.O., 3-Wire Switch	2	4
	PNP N.C., 3-Wire Switch	2	4
	NPN N.C., 3-Wire Switch	2	4
	140V, 2-Wire Switch	2	4
	250V, 2-Wire Switch	2	4
	SPDT Reed Switch	2	4
	NAMUR Intrinsically Safe	2	4



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FOR A VARIETY OF INDUSTRIES AROUND THE WORLD.

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B-1068_EL_S5CS_2025-09



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