MICRO SWITCH BASIC SWITCH
SEALED SWITCH COMPARISON

Water-tight. Dust-tight. Miniature and subminiature switches. Sealed to IP67.
Compact size with industrial-grade performance.

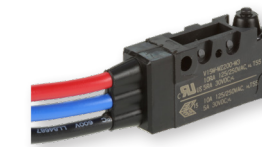| SERIES	V15W2	V15W	ZD	ZW	HD	HD1
Type, Market	zone 2, hazardous locations	sealed, high current capacity	standard, sealed	standard, sealed	standard, sealed	standard, sealed
Sealing	IP67 equivalent	IP67 (prewired)	IP67 (prewired)	IP67 (prewired)	IP67 (prewired)	IP67 (prewired)
Amp rating (A)	5	0.1, 5, 6, 10	0.1, 3	0.1, 6	0.3 to 3	0.1
Voltage	125 Vac, 250 Vac	125 Vac, 250 Vac, 30 Vdc	125 Vac, 12 Vdc	125 Vac, 250 Vac	125 Vac, 12 Vdc	12 Vdc
Circuitry	SPDT, SPNO, SPNC	SPDT, SPNO, SPNC	SPDT, SPNO, SPNC	SPDT, SPNO, SPNC	SPDT, SPNO, SPNC	SPNO, SPNC
Max. operating force (gf) *at the plunger*	100, 200	50, 100, 150, 200, 300	130	150, 203	130	100, 130, 200
Terminations	quick connect	quick connect; wired - 300 mm; special	solder, pcb, pre-wired	solder, pcb, pre-wired	solder, pcb, pre-wired	solder, pcb, pre-wired, clips
Actuators/ levers	pin plunger, roller, straight, long, sim roller	pin plunger, roller, straight, sim roller	pin plunger, straight, sim. roller, formed	pin plunger, straight, roller, sim. roller	pin plunger, sim. roller, formed, straight	pin plunger
Approvals	UL, cUL, CE, UKCA, ENEC, CQC, RoHS, IEC Ex, ATEX	UL, cUL, CE, UKCA, ENEC, CQC, RoHS, REACH	UL, cUL, CE, UKCA, ENEC, CQC, RoHS, REACH	UL, cUL, CE, UKCA, ENEC, CQC, RoHS, REACH	UL, cUL, CE, UKCA, ENEC, CQC, RoHS, REACH	UL, cUL, CE, UKCA, ENEC, CQC, RoHS, REACH
Agency-rated use temp. (°C)	-25 to 85	0 to 55	0 to 55	0 to 70	0 to 55	0 to 55
Contacts	silver alloy, gold-plated	silver nickel, gold-plated	silver, gold-plated silver	silver, gold-plated silver	silver alloy	silver-plated copper alloy
Housing material	PBT polyester	PBT polyester	PBT polyester, polyamide (nylon)	PBT polyester	polyamide (nylon)	PBT Polyester
Dimensions mm H x W x L	15,90 x 10,30 x 33,00	15,90 x 10,30 x 33,00	8,10 x 5,40 x 14,70	9,25 x 6,40 x 19,80	7,4 x 5,4 x 14,7	7,05 x 5,3 x 8,3

* With the exception of the V15W2, all switch families represented by this document require wired designs from the factory to achieve an IP67 rating. Each switch family has terminal versions. While these switches are also sealed, due to their exposed terminals, the formal ingress rating is IP00.

PRODUCT SERIES AND DATASHEETS

Click the product or series to view the Series datasheet.

V15W2

V15W

ZD

ZW

HD

HD1

APPLICATIONS

Presence Detection
Ensures door latching and safe operation

Flow Switch
Enables safe and efficient water usage

Power Switch
Reliable system control for motors, pumps, fans

Operator Controls
Interface control for system auxiliary functions

Float Switch
On/off power to stop overflow conditions

SUPPORTING DOCUMENTATION

Click the document title or icon to view the material.

- Applying Precision Switches
- Sensors and Switches for Medical Applications
- V15W2 Explosion-Proof Basic Switch: Reverse Diagram
- MICRO SWITCH Hazardous Location Approvals Matrix
- Sensors and Switches in Valves and Flowmeters
- Industrial Applications Brochure
- Watertight Switches in Transportation

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