

# V15W2 SERIES

32336117

Issue H

## Basic Switch for Hazardous Locations

### DESCRIPTION

MICRO SWITCH V15W2 Series basic switches are precision snap-action contact mechanisms enclosed in plastic cases. Switch actuation triggers the mechanical closure of the switch's contacts. The switches are approved for use in Zone 2 hazardous locations. While a small amount of arcing occurs between the switch contacts during contact closure, the switch is environmentally sealed so that flammable gases cannot enter into the switching cavity. This minimizes the chances of ignition of flammable gases in a hazardous atmosphere.

The ATEX and IEC Ex approvals are: Ex ec nC IIA Gc for an ambient temperature range of -25 °C to +85 °C per EN/IEC 60079-0, EN/IEC 60079-7 and EN/IEC 60079-15 via certificates DEKRA 19ATEX0013U and IEC Ex DEK 17.0053U.

### DIFFERENTIATION

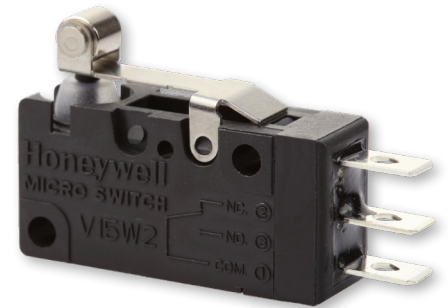
- ATEX and IEC Ex approvals
- Wide variety of actuators, connections, operating and electrical characteristics
- More durable performance within a range of conditions
- Operates under many difficult/harsh environmental conditions

### VALUE TO CUSTOMERS

- V-Basic switches for potential use in refrigeration units using alternatives for HFC and HCFCs, specifically targeting OEMs and Tier white goods manufacturers transitioning to lower GHA emission refrigerants (which tend to be more explosive) per EPA and other regulatory guidance
- Certified for use in ordinary locations via UL, cUL (North America), CQC (Asia-Pacific), and ENEC (Europe). Certified for use in hazardous locations via ATEX (Europe) and IEC Ex (International)

### POTENTIAL APPLICATIONS

- Appliances (especially with new refrigerants)
- Valve actuators
- Commercial refrigeration
- Ice makers
- HVAC/R (furnace, refrigeration, ventilation)



### FEATURES

- Approved for use in Zone 2 hazardous locations; ATEX and IEC Ex certifications
- IP67 equivalent
- UL, cUL, ENEC, and CQC certifications for ordinary (non-hazardous) locations
- 5 A electrical rating
- Longer service life: over one million mechanical operations
- Quick-connect terminals
- SPDT, SPNO, SPNC
- 100 gf, 200 gf operating forces
- Available with a variety of actuators
- Global package size acceptance
- Gold contacts are also available for controlling logic-level/low-energy circuits



### PORTFOLIO

The MICRO SWITCH V15W2 Series basic switch is part of a broad Honeywell switch portfolio. Globally compliant and known worldwide for their compact and lightweight design, MICRO SWITCH snap-action switches are designed for more accurate repeatability and extended life. To view the entire product portfolio, [click here](#).

**Honeywell**

# BASIC SWITCH FOR HAZARDOUS LOCATIONS

## V15W2 SERIES

**TABLE 1. SPECIFICATIONS**

CHARACTERISTIC	PARAMETER
<b>Circuitry</b>	SPDT, SPNO, SPNC
<b>Operating force</b>	100 gf, 200 gf
<b>Termination</b>	quick connect: 4,8 mm x 0,5 mm
<b>Actuators</b>	pin plunger, roller lever, straight lever, simulated roller lever
<b>Agency certification</b>	UL, cUL, ENEC, CQC, ATEX, IEC Ex
<b>Sealing</b>	IP67 equivalent (terminals are sealed, but they are exposed so official rating is IP00)
<b>Operating temperature</b>	-25 °C to 85 °C [-13 °F to 185 °F]
<b>Mechanical life (cycles)</b>	1,000,000 cycles min. @ 60 cycles/minute max. (500,000 cycles min. for 200 gf force version)
<b>Dielectric strength</b>	1000 Vac (RMS) for one minute between open contacts, leakage current <10 mA
<b>Switch resistance (initial)</b>	50 mOhm max.
<b>Insulation resistance</b>	100 MOhm min. (500 Vdc for one minute)
<b>Contact material</b>	Silver alloy
<b>Housing material</b>	PBT thermoplastic polyester
<b>Sealing material</b>	Silicone

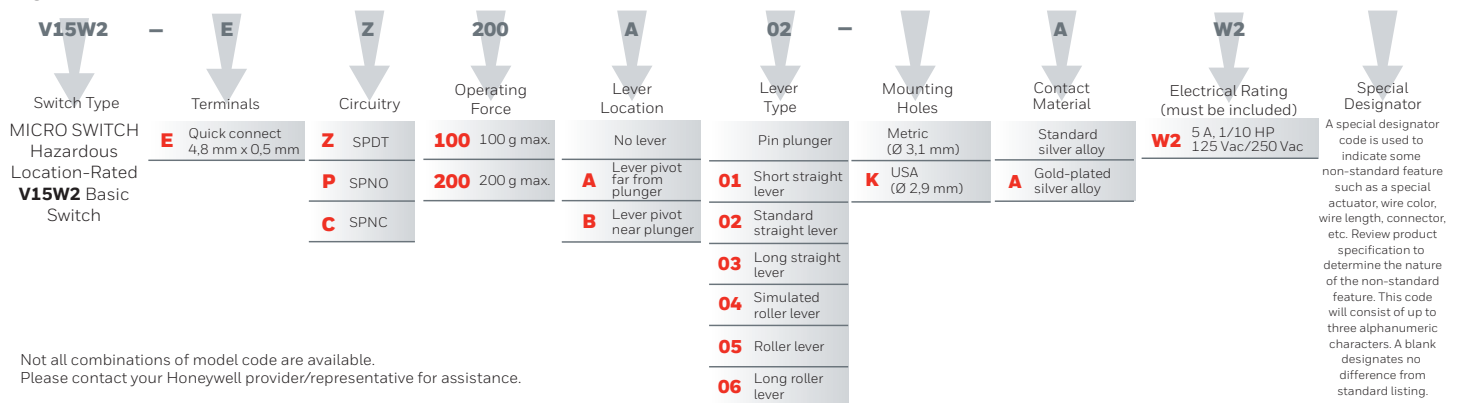
**TABLE 2. ELECTRICAL RATINGS**

CHARACTERISTIC	PARAMETER
<b>UL/cUL electrical rating per UL 61058-1</b>	5 A, 1/10 HP @ 125 Vac/250 Vac, 10,000 cycles
<b>ENEC/CQC electrical rating per IEC 61058-1 and GB15091.1</b>	5 A, 125 Vac/250 Vac, 50,000 cycles

**TABLE 3. HAZARDOUS AREA CERTIFICATION**

ATEX and IEC Ex per EN/IEC 60079-0, EN/IEC 60079-7 and EN/IEC 60079-15  
 Ex ec nC IIA Gc  
 -25°C < Tamb < +85°C

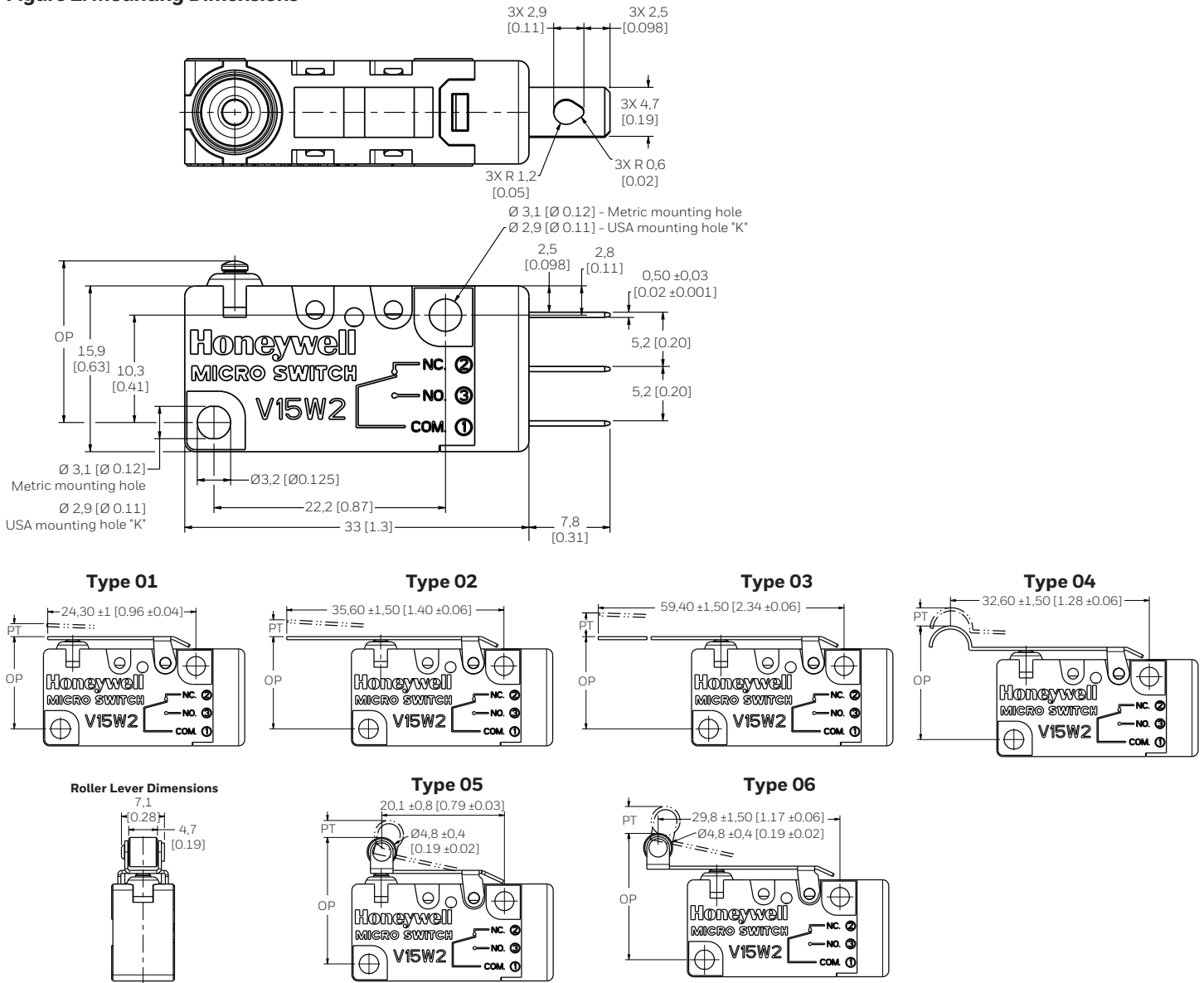
**Figure 1. Product Nomenclature**



# BASIC SWITCH FOR HAZARDOUS LOCATIONS

## V15W2 SERIES

Figure 2. Mounting Dimensions

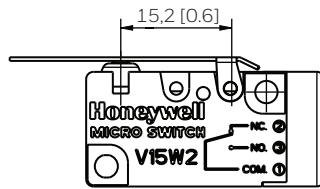


# BASIC SWITCH FOR HAZARDOUS LOCATIONS

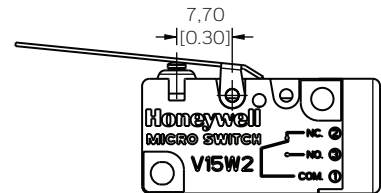
## V15W2 SERIES

**TABLE 4. OPERATING CHARACTERISTICS**

Actuator Type	Maximum Operate Force (g)		Minimum Release Force (g)		Maximum Pretravel mm	Minimum Overtravel mm	Maximum Differential Travel mm	Operate Point mm
	Operate Force Code		Operate Force Code					
	100	200	100	200				
<b>LEVER POSITION A</b>								
Pin Plunger	100	200	15	40	1,2	1,0	0,4	14,8 ±0,4
01 Short Straight Lever	90	180	11	29	2,0	1,1	0,6	15,5 ±0,6
02 Standard Straight Lever	60	110	7	19	3,0	1,5	0,9	15,6 ±1,0
03 Long Straight Lever	40	70	4	8	6,0	2,2	2,0	15,5 ±2,5
04 Simulated Roller Lever	70	125	7	18	2,8	1,5	1,0	18,9 ±1,2
05 Roller Lever	100	200	15	40	1,2	1,0	0,5	20,6 ±0,5
06 Long Roller Lever	80	130	7	23	2,5	1,3	0,7	20,7 ±1,0
<b>LEVER POSITION B</b>								
Pin Plunger	100	200	15	40	1,2	1,0	0,4	14,8 ±0,4
01 Short Straight Lever	45	90	6	15	3,5	1,2	1,1	15,7 ±1,1
02 Standard Straight Lever	28	55	4	10	5,2	2,4	1,8	16,0 ±1,6
03 Long Straight Lever	18	35	2	6	9,0	4,5	3,0	16,5 ±3,3
04 Simulated Roller Lever	40	65	2,5	8	5,0	2,0	1,7	19,0 ±1,8
05 Roller Lever	58	115	7	19	3,0	1,2	0,9	21,0 ±0,9
06 Long Roller Lever	40	70	4	11	4,5	1,5	1,4	20,9 ±1,5



Lever Position A



Lever Position B

## WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective.

**The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Honeywell assumes no responsibility for its use.

## FOR MORE INFORMATION

Honeywell services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing or the nearest Authorized Distributor, visit our [website](#) or call:

USA/Canada	+1 302 613 4491
Latin America	+1 305 805 8188
Europe	+44 1344 238258
Japan	+81 (0) 3-6730-7152
Singapore	+65 6355 2828
Greater China	+86 4006396841

## Honeywell Advanced Sensing Technologies

830 East Arapaho Road  
Richardson, TX 75081  
[honeywell.com](#)

32336117-H-EN | H | 07/22  
© 2022 Honeywell International Inc. All rights reserved.

## WARNING PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

## WARNING MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**

**Honeywell**

单击下面可查看定价，库存，交付和生命周期等信息

[>>Honeywell\(霍尼韦尔\)](#)