# Honeywell

# V-Basic Standard V15 Series

# Electromechanical Basic Switch

### **DESCRIPTION**

Honeywell's V-Basic Standard V15 series is an electromechanical switch designed for enhanced reliability at a great value. This switch is often ideal for "low-cost-of-failure" – where the cost to replace the switch or to service any failure related to the switch is minimal. The V15 is designed for applications requiring ≥ 15 g of operating force and electrical ratings ranging from 0.1 A to 22 A.

The V15 Series switch offers a wide range of standard offerings, including a choice of actuators, electrical ratings, operating forces, and circuitry, and holds global approvals (ENEC, CQC, UL, cUL).

### **FEATURES**

- Broad range of electrical loads
- Straight, roller, simulated roller, and special actuators
- Special terminations available upon request
- Precision operation and application versatility
- · Wide temperature range
- Global approvals (ENEC, CQC, UL, cUL)

# BENEFITS

- Compatible with many applications due to the switches design flexibility, broad range of electrical loads, and actuators
- Accepts insulated connections, most quick connect openings
- Reliability, repeatability within range of conditions

### POTENTIAL APPLICATIONS

- Appliance
- Gaming
- Vending machines
- Water heaters
- Industrial controls

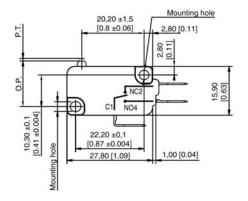
# **V-Basic Standard V15 Series**

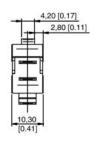
Specifications						
Insulation resistance	≥ 100 mOhm (500 Vdc)					
Dielectric strength	1000 Vac (50 Hz/60 Hz, 1 min.)					
Contact resistance	100 milliOhm max.					
Operating frequency - electrical	10 to 30 operations per minute					
Operating frequency – mechanical	300 operations per minute max.					
Operating speed	0,1mm - 1m/sec.					
Service life mechanical	5 million cycles (operating force ≤ 200 g); 1 million cycles (operating force > 200 g)					
Service life electrical	6000 or 50000 operations minimum					
Storage temperature	-25 °C to 100 °C [-13 °F to 212 °F]					
Storage humidity	85 % RH max.					
Micro disconnection (μ)	< 3 mm contact gap					
Agency approvals	ENEC, CQC, UL, cUL					

### **ELECTRICAL CHARACTERISTICS**

Electrical rating	
5	ENEC/CQC: 5 (2.5) A, 125 Vac/250 Vac (50000 cycles)
10	UL/cUL: 10 A 11/2 HP, 125 Vac/250 Vac (100000 cycles)
16	ENEC/CQC: 16(4) A, 250 Vac (50000 cycles)
	UL/cUL: 161/2 HP, 125 Vac/250 Vac (6000 cycles)
22	ENEC/CQC: 22(8)A, 250 Vac (10000 cycles)
	UL/cUL: 22 A 1HP, 125 Vac/250Vac (6000 cycles)

### **DIMENSIONS**





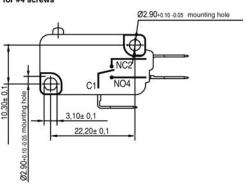
# MOUNTING HOLE DIMENSIONS Metric mounting for Ø3 mm pins or screws

Metric mounting for Ø3 mm pins or screws

03.10+0.10 -0.05 mounting hole

## **USA** mounting for #4 screws

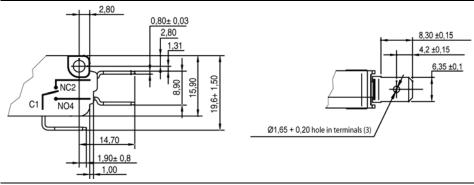
US mounting for #4 screws



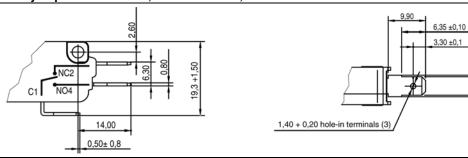
# Electromechanical Basic Switches

## **CONNECTION DIMENSIONS**

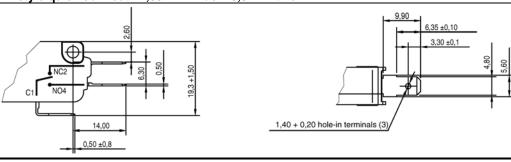
# C-style quick connect - 6,35 mm wide x 0,8 mm thick



## D-style quick connect - 4,80 mm wide x 0,8 mm thick

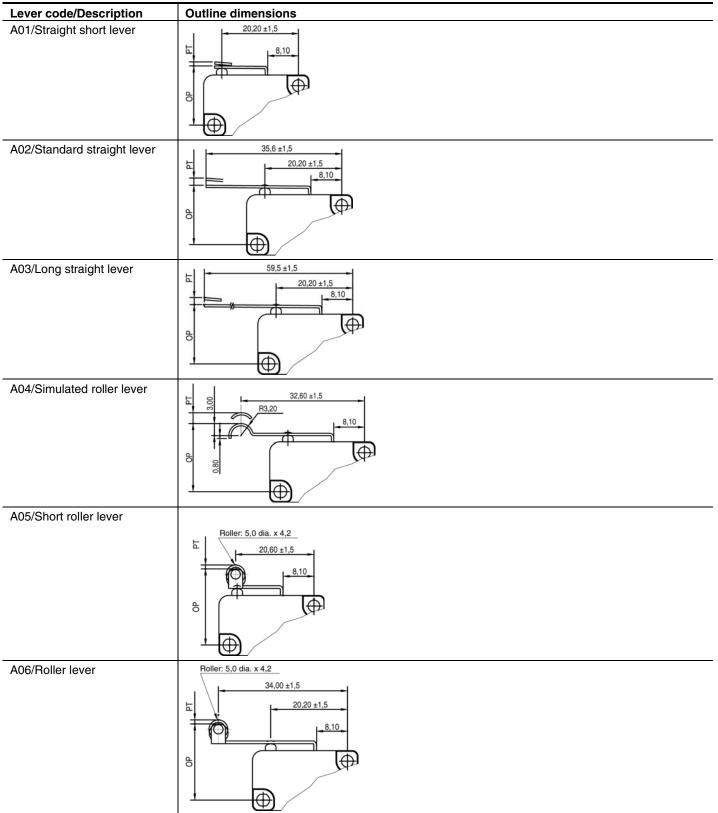


### E- style quick connect - 4,80 mm wide x 0,5 mm thick



# **V-Basic Standard V15 Series**

## **STANDARD LEVER OPTIONS**



# **Electromechanical Basic Switches**

NOMENCLATURE TREE
V15 Series Micro Switch Ordering Instruction

V15	Т	16	С С	Z	200	A	01	- XX	K
vitch Type 开关类别	Temperture grade 温度等级	Electrical Rating 概定负载	Terminal Style 端子类型	Circuit Code 接触形式	Operating Forc at pin Plunger,Max 操作力(最大值) 数据在不带操作柄测得	Lever Position 操作柄位置	Lever Type 操作柄类型	Special Designator 特別设计代码	Mounting Holes
15 Series cro-Switch V15系列	T85 S (for "05" rating Only. 仅适用"05"额定负 载)	ENEC/CQC: 0.1A 30VDC 0.1A 125/250VAC 5(2.5)A 125/250VAC ("5" and "T" Temperture grade only) UL/CSA: 0.1A 30VDC 0.1A 125/250VAC 5A 1/10HP 125/250VAC	C 0.250x0.032 Quick connect 快速连续端子 6.30X0.80mm	Z SPDT 单极双投	015 15gf 0.15N	No lever 不帶操作柄 Pin Phunger 柱式接拳	No lever 不带操作柄 Pin Plunger 柱式按學	A special designator letter is used only when Terminal Type is "X" or Actuator/Lever Type is "99" to specify that the terminals or the actuator of the switch is special. Review Product Specification to determine the exact differences.	Metric Ø3.1mm
微动开关	т т125	UL/CSA: 1A 30VDC 10 10A 1/2HP 125/250VAC (100K cycels, "H" temperture grade only. "H" 温试等级适用)	0.187"x0.032" Quick connect 快速连接端子 4.70X0.8mm	SPST- NO 单极单投· 常开	025 25gf 0.25N	Far From Pin Plunger 云离柱式按挚位 置	Short Straight 01 Lever 短直柄	此为特別指定代码.当端 子类型是"	K USA Ø2.9mm
	н т150	ENEC/CQC: 16(4)A 250VAC 18 UL/CSA: 16 1/2HP 125/250VAC	E 0.187"x0.020" Quick connect 快速连接端子 4.70X0.5mm	SPST- NC 单极单投- 常闭	050 50gf 0.49N	B Near Pin Pillunger 靠近柱式接擊位置	Std. Straight 02 Lever 标准直柄		
		ENEC/CQC: 22(8)A 250VAC 22 UL/CSA: 22A 1HP 125/250VAC	0.187"x0.032" Solder/Quick connect 焊板快速连接端子 4.70X0.8mm		100gf 0.98 N		Long Straight 03 Lever 长直柄		
			Left side PCB connect 左侧面PCB端子		200gf 1.96N		Simulated Roller Lever 摸似液轮手柄		
			Right side PCB connect 右侧面PCB端子		300gf 2.94N		Roller Lever 带滚轮手柄		
			Solder Connect 焊接端子		400gf 3.92N		Long Roller Lever 带滚轮手柄		
			Screw Connect 螺孔端子				99 Special Lever 特殊手柄		
			X Special Connect X1 特殊增子						
		Note: (1).Letters only for Basic type C Letters and number for Flat ty 仅字母时用于基本型外壳							

### **ORDER GUIDE**

UNDER GUIDE													
V15 AP order guide													
V15 H	5	-	Ε	Z	100		V15	Н	16	-	Ε	Z	100
V15 H	5	-	Ε	Z	200		V15	Н	16	-	Ε	Z	200
V15 H	5	-	С	Z	100		V15	Н	16	-	С	Z	100
V15 H	5	-	С	Z	200		V15	Н	16	-	С	Ζ	200
V15 H	5	-	Ε	Р	100		V15	Н	16	-	Ε	Р	100
V15 H	5	-	Ε	Р	200		V15	Н	16	-	Ε	Ρ	200
V15 H	5	-	С	Р	100		V15	Н	16	-	С	Р	100
V15 H	5	-	С	Р	200		V15	Η	16	-	С	Р	200
V15 H	10	-	Ε	Z	100		V15	Н	22	-	Ε	Z	100
V15 H	10	-	Ε	Z	200		V15	Н	22	-	Ε	Ζ	200
V15 H	10	-	С	Z	100		V15	Η	22	-	С	Z	100
V15 H	10	-	С	Z	200		V15	Η	22	-	С	Z	200
V15 H	10	-	Ε	Р	100		V15	Н	22	-	Ε	Ρ	100
V15 H	10	-	Ε	Р	200		V15	Н	22	-	Ε	Р	200
V15 H	10	-	С	Р	100		V15	Н	22	-	С	Р	100
V15 H	10	-	С	Р	200		V15	Н	22	-	С	Р	200

# **A** 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.

# **A** 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.

#### WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement 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 it 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 we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer 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 printing. However, we assume no responsibility for its use.

#### SALES AND SERVICE

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office or:

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