

V15 SERIES

004945
Issue 15

MICRO SWITCH Standard Miniature Basic Switches



APPLICATIONS



Presence Detection

Ensures door latching and safe operation



Float Switch

On/off power to stop overflow conditions



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

VALUE PROPOSITION

The Honeywell MICRO SWITCH V-Basic Standard Switch, V15 Series is an electromechanical switch designed to provide outstanding value in a reliable global package. This switch is often ideal for “low-cost-of-failure” applications, where the cost is minimal to replace or service any failure related to the switch. With a wide variety of operating forces, and amperage ratings, the V15 is designed for numerous types of applications.

V15 FEATURES	V15 BENEFITS	OUR VALUE
Six full certified electrical ratings	Electrical ratings for design flexibility in one industry standard package size	Competitive cross references available
Two million cycles minimum for certain designs	Globally certified for reliable, repeatable actuation for life	Snap-spring mechanism with more than 80 years of MICRO SWITCH service
UL, CE, UKCA, cUL, ENEC and CQC	Identical system designs for platform applications worldwide	Certifications enable global design acceptance and cost savings in agency approvals
Four contact material options	Contact variants to enable design and regulation compliance	Industry standard switch footprint and global certifications ideal for “low-cost-of-failure” applications
Highly configurable product offerings	Actuation, termination, housing, and special modifications available to enable design platform flexibility	

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MICRO SWITCH STANDARD BASIC SWITCHES

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TABLE 1. SPECIFICATIONS

CHARACTERISTIC	PARAMETER
Circuitry	SPDT, SPNO, SPNC
Operating force	0,15 N to 3,92 N [15g to 400 g]
Termination	quick connect; 6,35 mm x 0,80 mm [0.250 in x 0.032 in] quick connect 4,80 mm x 0,80 mm [0.187 in x 0.032 in] quick connect 4,80 mm x 0,50 mm [0.187 in x 0.020 in] push-in terminals; RAST-5 250#; RAST-7 250#; short solder; slot-hole solder; solder; right side PCB; left side PCB; straight PCB; screw; oblique screw
Actuators	pin plunger, integral lever options
Agency certification	UL, CE, UKCA, cUL, ENEC, CQC
Operating temperature (manufacturer specified)	code S: -25°C to 85°C [-13 °F to 185 °F] code T: -25°C to 125°C [-13 °F to 257 °F] code H: -25°C to 150°C [-13 °F to 302 °F]
Humidity	Validated to 240 hours at 40°C [40°F], 95 %RH
Mechanical life (cycles)	1 million cycles (except for 200 g versions of V15S05 and V15T10 which are 500,000 cycles)
Contact material	silver (≤ 5 A), silver cadmium oxide (>5 A); gold-plated and cadmium-free options available
Housing material	PBT thermoplastic polyester (standard) PET thermoplastic polyester (V15H high temperature, 150°C [302 °F])

TABLE 2. ELECTRICAL RATINGS

RATING/ NOMENCLATURE CODE	UL/CUL (CUL 61058-1, FILE 12252) AMERICAS	ENEC (IEC 61058-1) EUROPE CQC (GB15092-1) ASIA-PACIFIC
05	5 GPA 125/250 Vac; 0.1 GPA 125/250 Vac 1/10 HP 125/250 Vac 0.1 RA 48 Vdc 10,000 cycles	0.1 A 125/250 Vac; 0.1 A 48 Vdc 5 (2.5) A 125/250 Vac 50,000 cycles ("M" Contact: 25,000 cycles)
H10	10 GPA 125/250 Vac 1/2 HP 125/250 Vac 1.0 RA 30 Vdc 100,000 cycles	0.5 A 125 Vdc, 0.25 A 250 Vdc 10(3) A 125/250 Vac 50,000 cycles Contact "M" option not available
T10	11 GPA 125/250 Vac 1/3 HP 125/250 Vac 0.5 RA 125 Vdc 0.25 RA 250 Vdc 10,000 cycles	0.5 A 125 Vdc; 0.25 A 250 Vdc 10 (3) A 125/250 Vac 50,000 cycles Contact "M" option not available
S11	11 (3) 125/250 Vac 50,000 cycles	11 (3) 125/250 Vac 50,000 cycles Contact "M" option not available (ENEC only)
16	16 GPA 125/250 Vac 1/2 HP 125/250 Vac 10,000 cycles	16 (4) A 250 Vac 50,000 cycles ("M" Contact: 25,000 cycles)
22	22 GPA 125/250 Vac 1 HP 125/250 Vac 10,000 cycles	22 (8) A 250 Vac 50,000 cycles ("M" Contact: 25,000 cycles)
26	26 GPA 125/250 Vac 2 HP 250 Vac	0.02 A 250 Vac 26 (10) A 250 Vac 50,000 cycles ("M" Contact: 25,000 cycles)




- RA = Resistive Amps (Resistive Load)
- GPA = General Purpose Amps (Inductive Load, 75 % to 80 % power factor)
- VL = Lamp Load

- XX (Y) = XX max. resistive value (Amps) and (Y) max. inductive value (Amps)

MICRO SWITCH STANDARD BASIC SWITCHES




V15 SERIES

V15S05 PRODUCT NOMENCLATURE

Switch Type	Temperature Grade	Electrical Rating	Terminal Type	Housing Type	Circuit Code	Operating Force (at pin plunger max)	Lever Position	Lever Type	Mounting Holes	Special Designator						
V15 Series Standard Basic Switch	S 85 °C [185 °F] <small>(for "05" and "11" ratings only)</small>	05 0.1 A 48 Vdc/ 125 Vac/250 Vac 5 A 125 Vac/250 Vac	C Quick connect 6.30 mm x 0.80 mm (0.250 in x 0.032 in)	Basic 	Z SPDT	015 15 gf; 0.15 N	A Pin plunger, no lever <small>(blank)</small>	No Lever <small>(blank)</small>	Metric Ø 3.1 mm <small>(blank)</small>	A special designator letter is used only when there is a special modification to the switch. Review Product Specification to determine the exact differences. Below is an example. A Gold-plated contacts M Optimized contacts***						
			D Quick connect 4.70 mm x 0.80 mm (0.187 in x 0.032 in)								1 Flat 	P SPST-NO	025 25 gf; 0.25 N	A Far from pin plunger	01 Short straight lever	K USA Ø 2.9 mm
			E Quick connect 4.70 mm x 0.50 mm (0.187 in x 0.020 in)								2 Fully flat 	C SPST-NC	050 50 gf; 0.49 N	B Near pin plunger	02 Standard straight lever	
			F Screw terminal w/ pressure plate									100 100 gf; 0.96 N	03 Long straight lever			
			U Push-in terminal <small>(used only in combination with "S11")</small>									200 200 gf; 1.96 N	04 Simulated roller lever			
							05 Roller lever									
								06 Long roller lever								
								** Special								




* Type "11" rating only available with U terminal type and 200 gf operating force.
 ** Additional code assigned for specials
 *** "M" contact designation not allowed with "11" electrical rating

V15T10 PRODUCT NOMENCLATURE

Switch Type	Temperature Grade	Electrical Rating	Terminal Type	Housing Type	Circuit Code	Operating Force (at pin plunger max)	Lever Position	Lever Type	Mounting Holes	Special Designator					
V15 Series Standard Basic Switch	T 125 °C [257 °F]	10 0.5 A 125 Vdc 0.25 A 250 Vdc 4 A 125 Vac (lamp load)* 10 A 1/2 HP 125 Vac/250 Vac 1/3 HP 125 Vac/250 Vac <small>*Lamp load 4 A 125 VL is not allowed with V15T10 50 gfs</small>	C Quick connect 6.30 mm x 0.80 mm (0.250 in x 0.032 in)	Basic 	Z SPDT	050 50 gf; 0.49 N	A Pin plunger, no lever <small>(blank)</small>	No Lever <small>(blank)</small>	Metric Ø 3.1 mm <small>(blank)</small>	A special designator letter is used only when there is a special modification to the switch. Review Product Specification to determine the exact differences. Below is an example. A Gold-plated contacts F Cadmium-free contacts					
			D Quick connect 4.70 mm x 0.80 mm (0.187 in x 0.032 in)								1 Flat 	P SPST-NO	100 100 gf; 0.96 N	A Far from pin plunger	01 Short straight lever
			E Quick connect 4.70 mm x 0.50 mm (0.187 in x 0.020 in)								2 Fully flat 	C SPST-NC	200 200 gf; 1.96 N	B Near pin plunger	02 Standard straight lever
			F Screw terminal w/ pressure plate									03 Long straight lever			
												04 Simulated roller lever			
							05 Roller lever								
								06 Long roller lever							
								** Special							

** Additional code assigned for specials

V15H16/T16/T22/H22/T26 PRODUCT NOMENCLATURE

Switch Type	Temperature Grade	Electrical Rating	Terminal Type	Housing Type	Circuit Code	Operating Force (at pin plunger max)	Lever Position	Lever Type	Mounting Holes	Special Designator					
V15 Series Standard Basic Switch	T 125 °C [257 °F]	10 0.5 A 125 Vdc, 0.25 A 250 Vdc 1 A 30 Vdc 10 A 1/2 HP 125/250 Vac <small>(H temperature grade only)</small>	C Quick connect 6.30 mm x 0.80 mm (0.250 in x 0.032 in)	Basic 	Z SPDT	100 100 gf; 0.96 N	A Pin plunger, no lever <small>(blank)</small>	No Lever <small>(blank)</small>	Metric Ø 3.1 mm <small>(blank)</small>	A special designator letter is used only when there is a special modification to the switch. Review Product Specification to determine the exact differences. Below is an example. A Gold-plated contacts F Cadmium-free contacts M Optimized ² contacts					
			D Quick connect 4.70 mm x 0.80 mm (0.187 in x 0.032 in)								1 Flat 	P SPST-NO	200 200 gf; 1.96 N	A Far from pin plunger	01 Short straight lever
	H 150 °C [302 °F]	16 16 A 125 Vac/250 Vac 1/2 HP 125 Vac/250 Vac	E Quick connect 4.70 mm x 0.50 mm (0.187 in x 0.020 in)								2 Fully flat 	C SPST-NC	300 300 gf; 2.84 N	B Near pin plunger	02 Standard straight lever
			F Screw terminal w/ pressure plate									400 400 gf; 3.92 N	03 Long straight lever		
		22 22 A 125 Vac/250 Vac 1 HP 125 Vac/250 Vac	H RAST-5 250# connector								K Slot hole, solder terminal	L Left side, PCB terminal	M Short solder terminal	N RAST-7 250# connector	04 Simulated roller lever
			P Straight PCB terminal												05 Roller lever
		26 0.02 A 250 Vac 26 A 250 Vac 2 HP 250 Vac	R Right side, PCB terminal								S Solder terminal	T Screw terminal	** Special terminal	06 Long roller lever	
			S Solder terminal											** Special	

^A "H" temperature grade not allowed with "26" electrical rating
¹ "100" gf not allowed with "26" electrical rating
² "M" contact designation not allowed with "10" electrical rating
 ** Additional code assigned for specials

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O.F. • Operating force O.T. • Overtravel
 R.F. • Release force D.T. • Differential travel
 P.T. • Pretravel O.P. • Operating position

TABLE 3. CONFIGURATIONS AND CHARACTERISTICS

ACTUATION TYPE	ACTUATION PICTURE	ELEC. RATING UI/CUL (ENEC)	ELECTRICAL RATING (SEE PAGE 5)	TEMPERATURE RATING	CIRCUITRY	O.F. MAX. G [OZ]	R. F. MAX. G [OZ]	O.P. NOMINAL MM [IN]	P.T. MAX. MM [IN]	D.T. MIN. MM [IN]	O.T. MAX. MM [IN]	MOUNTING HOLES	AVAILABLE W/ CADMIUM FREE CONTACTS
Pin plunger		5 A (5 A)	05	85°C	SPNO	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	No
					SPDT	15 [0.53]	3 [0.11]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	
					SPDT	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	
					SPDT	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	USA	
		10 A (---)	H10	150°C	SPNO	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	No
					SPDT	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	
		11 A (10 A)	T10	125°C	SPDT	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes
		16 A (16 A)	16	125°C	SPNO	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes
					SPDT	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	USA	
		150°C	16	150°C	SPDT	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes
					SPNO	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	USA	
		22 A (22 A)	22	125°C	SPNO	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes
					SPDT	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	USA	
				150°C	SPNO	100 [3.53]	25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	
SPDT	100 [3.53]				25 [0.88]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric			
--- (26 A)	26	125°C	SPNO	200 [7.05]	50 [1.76]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	USA	Yes		
			SPDT	200 [7.05]	50 [1.76]	14,7 [0.58]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric			
Short straight		10 A (---)	H10	150°C	SPDT	140 [4.94]	20 [0.71]	15,3 [0.60]	2,4 [0.09]	0,6 [0.023]	1,2 [0.05]	Metric	No
		11 A (10 A)	T10	125°C	SPDT	100 [3.53]	25 [0.88]	15,3 [0.60]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes
		16 A (16 A)	16	150°C	SPDT	100 [3.53]	25 [0.88]	15,3 [0.60]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes
					SPDT	400 [14.11]	100 [3.53]	15,3 [0.60]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	
				125°C	SPNC	100 [3.53]	25 [0.88]	15,3 [0.60]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	
					SPNO	300 [10.58]	75 [2.65]	15,3 [0.60]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	
					SPDT	100 [3.53]	25 [0.88]	15,3 [0.60]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	USA	
					SPNO	200 [7.05]	50 [1.76]	15,3 [0.60]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	
SPDT	200 [7.05]	50 [1.76]	15,3 [0.60]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	USA						



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Standard straight		5 A (5 A)	05	85°C	SPDT	10 [0.35]	2 [0.07]	15,3 [0.60]	6,0 [0.24]	1,65 [0.064]	2,2 [0.086]	Metric	No	
							15 [0.53]	2 [0.07]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	No
		10 A (---)	H10	150°C	SPNC	120 [4.23]	20 [0.71]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	No	
		11 A (10 A)	T10	125°C	SPDT	30 [1.06]	5 [0.18]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	Yes	
		16 A (16 A)	16	150°C	SPNO	60 [2.12]	10 [0.35]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	Yes	
					SPDT	60 [2.12]	10 [0.35]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	Yes	
					SPDT	120 [4.23]	20 [0.71]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	Yes	
					SPNO	240 [8.47]	40 [1.41]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	USA	Yes	
				125°C	SPDT	80 [2.82]	16 [0.56]	15,3 [0.60]	6,0 [0.24]	1,65 [0.064]	2,2 [0.09]	Metric	Yes	
					SPNO	180 [6.35]	30 [1.06]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	Yes	
					SPDT	60 [2.12]	10 [0.35]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	Yes	
					SPDT	120 [4.23]	20 [0.71]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	Yes	
		22 A (22 A)	22	125°C	SPDT	180 [6.35]	30 [1.06]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	Yes	
					SPNC	120 [4.23]	20 [0.71]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	Yes	
				150°C	SPNO	60 [2.12]	10 [0.35]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	Yes	
SPDT	60 [2.12]				10 [0.35]	15,3 [0.60]	3,2 [0.126]	1,2 [0.047]	1,3 [0.051]	Metric	Yes			
Long straight		10 A (---)	H10	150°C	SPNO	60 [2.12]	10 [0.35]	15,3 [0.60]	6,4 [0.25]	2,4 [0.09]	2,6 [0.10]	Metric	No	
		11 A (10 A)	T10	125°C	SPDT	60 [2.12]	10 [0.35]	15,3 [0.60]	6,4 [0.25]	2,4 [0.09]	2,6 [0.10]	Metric	Yes	
		16 A (16 A)	16	150°C	SPDT	30 [1.06]	5 [0.18]	15,3 [0.60]	6,4 [0.25]	2,4 [0.09]	2,6 [0.10]	USA	Yes	
					SPDT	90 [3.17]	15 [0.53]	15,3 [0.60]	6,4 [0.25]	2,4 [0.09]	2,6 [0.10]	USA	Yes	
				125°C	SPDT	30 [1.06]	5 [0.18]	15,3 [0.60]	6,4 [0.25]	2,4 [0.09]	2,6 [0.10]	Metric	Yes	
					SPDT	60 [2.12]	10 [0.35]	15,3 [0.60]	6,4 [0.25]	2,4 [0.09]	2,6 [0.10]	USA	Yes	
		22 A (22 A)	22	150°C	SPNO	32 [1.13]	8 [0.28]	15,3 [0.60]	12 [0.47]	3,5 [0.14]	5,3 [0.21]	Metric	Yes	
					SPDT	90 [3.17]	15 [0.53]	15,3 [0.60]	6,4 [0.25]	2,4 [0.09]	2,6 [0.10]	USA	Yes	
				125°C	SPDT	30 [1.06]	5 [0.18]	15,3 [0.60]	6,4 [0.25]	2,4 [0.09]	2,6 [0.10]	Metric	Yes	
					SPDT	60 [2.12]	10 [0.35]	15,3 [0.60]	6,4 [0.25]	2,4 [0.09]	2,6 [0.10]	Metric	Yes	
--- (26 A)	26	125°C	SPDT	60 [2.12]	10 [0.35]	15,3 [0.60]	6,4 [0.25]	2,4 [0.09]	2,6 [0.10]	Metric	Yes			




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Simulated roller		16A (16A)	16	150°C	SPDT	80 [2.82]	15 [0.53]	18,5 [0.73]	6,0 [0.24]	1,65 [0.064]	2,2 [0.09]	Metric	Yes		
				150°C	SPDT	180 [6.35]	30 [1.06]	18,5 [0.73]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes		
				125°C	SPDT	60 [2.12]	10 [0.35]	18,5 [0.73]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes		
				125°C	SPDT	120 [4.23]	20 [0.71]	18,5 [0.73]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	USA	Yes		
		22 A (22 A)	22	150°C	SPDT	80 [2.82]	15 [0.53]	18,5 [0.73]	6,0 [0.24]	1,65 [0.064]	2,2 [0.09]	USA	Yes		
				125°C	SPNO	120 [4.23]	20 [0.71]	18,5 [0.73]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes		
				125°C	SPDT	180 [6.35]	30 [1.06]	18,5 [0.73]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes		
				125°C	SPNC	120 [4.23]	20 [0.71]	18,5 [0.73]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes		
				---	26	125°C	SPDT	180 [6.35]	30 [1.06]	18,5 [0.73]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes
				5 A (5 A)	05	85°C	SPDT	60 [2.12]	10 [0.35]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Default
Short roller lever		5 A (5 A)	05	85°C	SPDT	120 [4.23]	20 [0.71]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Default		
				11 A (10 A)	T10	125°C	SPDT	240 [8.47]	40 [1.41]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes
		16 A (16 A)	16	150°C	SPDT	120 [4.23]	20 [0.71]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes		
				150°C	SPNO	120 [4.23]	20 [0.71]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes		
				150°C	SPDT	240 [8.47]	40 [1.41]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes		
				125°C	SPNC	120 [4.23]	20 [0.71]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes		
				125°C	SPDT	120 [4.23]	20 [0.71]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes		
				125°C	SPDT	240 [8.47]	40 [1.41]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes		
				125°C	SPNO	240 [8.47]	40 [1.41]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes		
				125°C	SPDT	120 [4.23]	20 [0.71]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes		
		22 A (22 A)	22	150°C	SPDT	120 [4.23]	20 [0.71]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes		
				125°C	SPDT	240 [8.47]	40 [1.41]	20,6 [0.81]	1,6 [0.06]	0,4 [0.02]	0,8 [0.03]	Metric	Yes		
		Roller lever		5 A (5 A)	05	85°C	SPNO	120 [4.23]	20 [0.71]	20,6 [0.81]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Default
						85°C	SPDT	35 [1.23]	5 [0.18]	20,6 [0.81]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Default
11 A (10 A)	T10			125°C	SPDT	120 [4.23]	20 [0.71]	20,6 [0.81]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes		
16 A (16 A)	16			150°C	SPDT	60 [2.12]	10 [0.35]	20,6 [0.81]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	USA	Yes		
				150°C	SPNO	80 [2.82]	10 [0.35]	20,6 [0.81]	6,0 [0.24]	1,6 [0.06]	2,2 [0.09]	Metric	Yes		
				125°C	SPNO	120 [4.23]	20 [0.71]	20,6 [0.81]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes		
				125°C	SPDT	60 [2.12]	10 [0.35]	20,6 [0.81]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes		
				125°C	SPDT	60 [2.12]	10 [0.35]	20,6 [0.81]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes		
				125°C	SPDT	120 [4.23]	20 [0.71]	20,6 [0.81]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes		
22 A (22 A)	22			150°C	SPDT	60 [2.12]	10 [0.35]	20,6 [0.81]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes		
		125°C	SPDT	120 [4.23]	20 [0.71]	20,6 [0.81]	3,2 [0.13]	1,2 [0.05]	1,3 [0.05]	Metric	Yes				

MICRO SWITCH STANDARD BASIC SWITCHES V15 SERIES

MOUNTING DIMENSIONS

Figure 1. V15 Series Standard Switch Dimensions

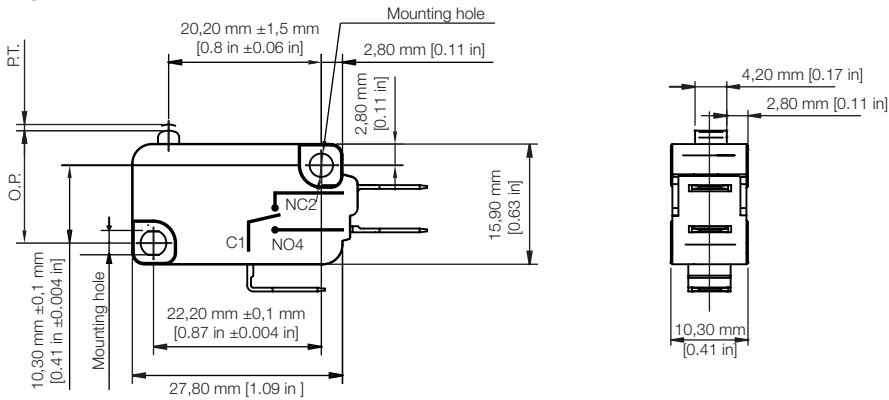


Figure 2. V15 Series Metric Mounting Hole Dimensions for Ø 3 mm pins or screws

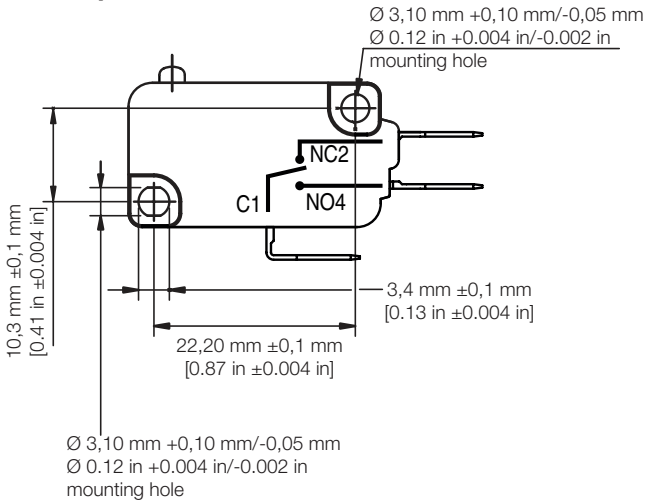


Figure 3. V15 Series USA Mounting Hole Dimensions for #4 screws

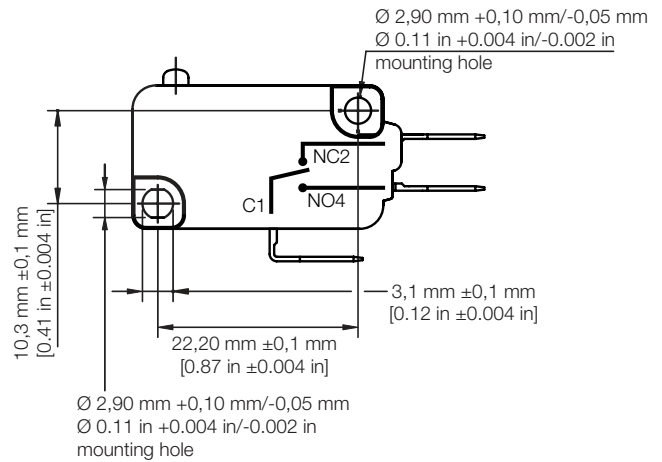


Figure 4. V15 Series Housing Dimensions

BASIC HOUSING TYPE	FLAT HOUSING TYPE	FULLY FLAT HOUSING TYPE
<p>1,9 mm [0.075 in]</p>	<p>1,0 mm [0.039 in]</p>	

MICRO SWITCH STANDARD BASIC SWITCHES V15 SERIES

CONNECTION DIMENSIONS

Figure 5. V15 Series C-style Quick Connect • 6,35 mm wide x 0,8 mm thick [0.25 in wide x 0.031 in thick]

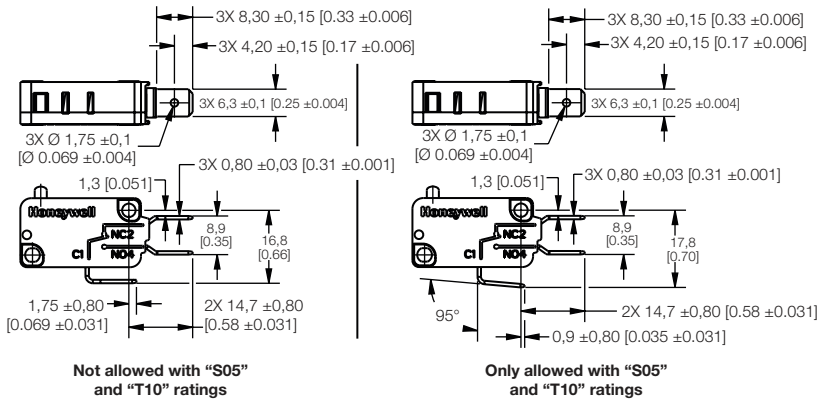


Figure 6. V15 Series H-style RAST-5 250# Connector

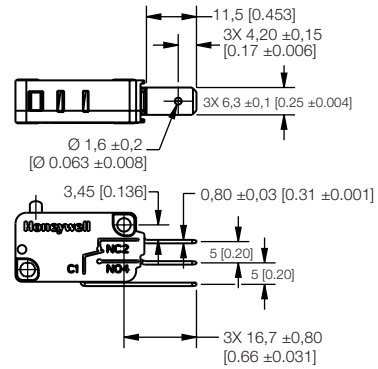


Figure 7. V15 Series D-style Quick Connect • 4,80 mm wide x 0,8 mm thick [0.189 in wide x 0.031 in thick]

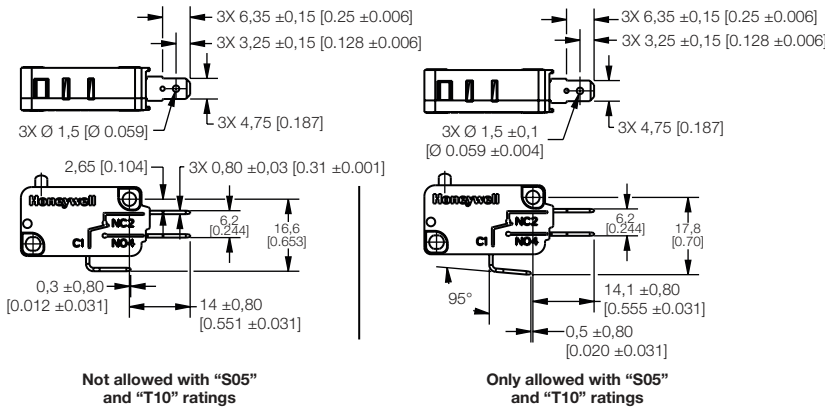


Figure 8. V15 Series N-style RAST-7 250# Connector

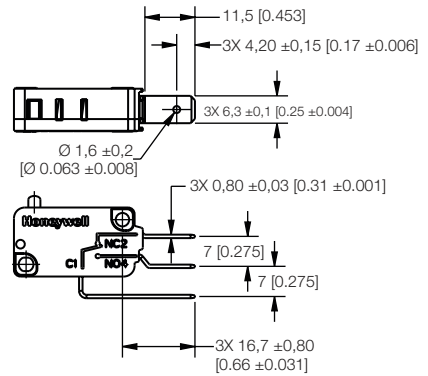


Figure 9. V15 Series E-style Quick Connect • 4,80 mm wide x 0,5 mm thick [0.189 in wide x 0.020 in thick]

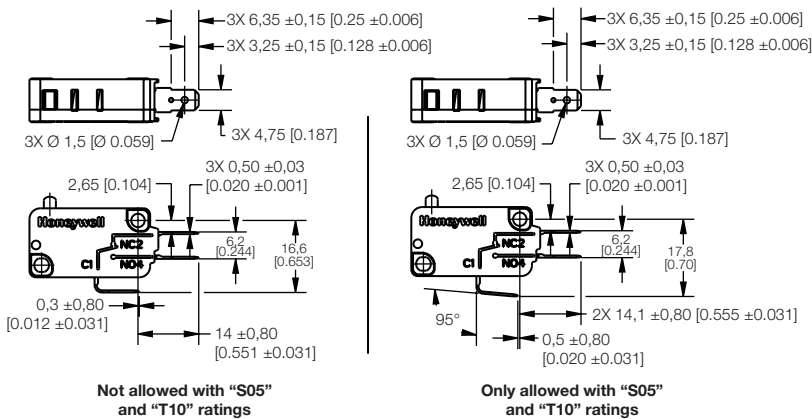
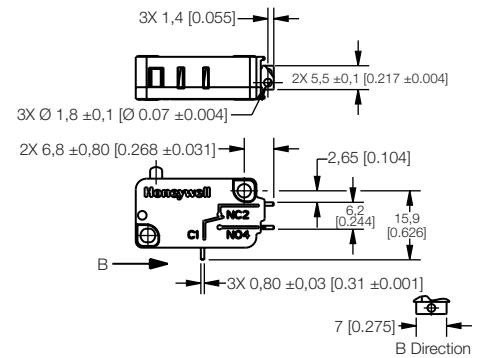


Figure 10. V15 Series M-style Short Solder Terminal



MICRO SWITCH STANDARD BASIC SWITCHES V15 SERIES

CONNECTION DIMENSIONS

Figure 11. V15 Series K-style Slot-Hole Solder Terminal

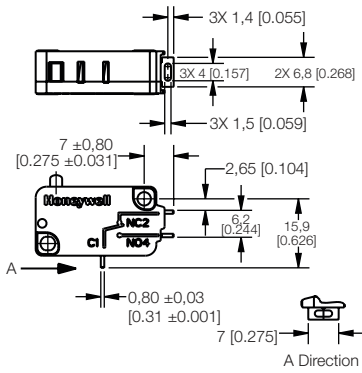


Figure 12. V15 Series S-style Solder Terminal

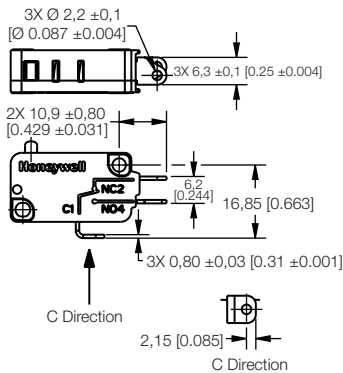


Figure 13. V15 Series T-style Screw Terminal

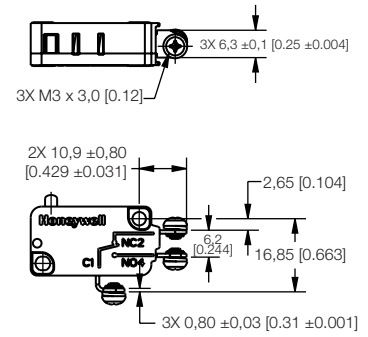


Figure 14. V15 Series L-style Left-Side PCB Terminal

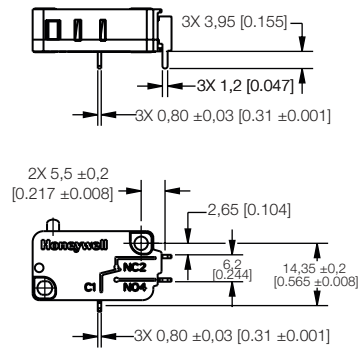


Figure 15. V15 Series P-style Straight PCB Terminal

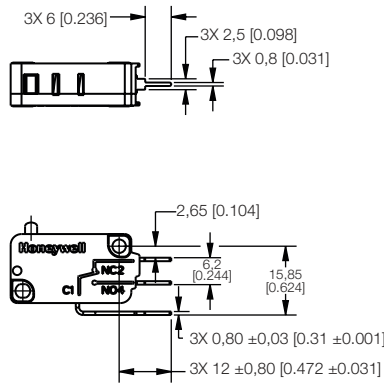


Figure 16. V15 Series R-style Right-Side PCB Terminal

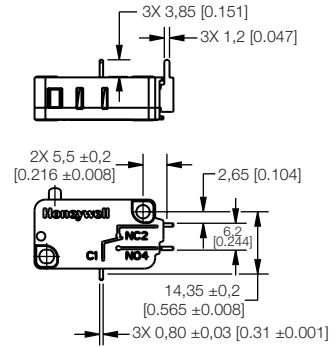


Figure 17. V15 Series F-style Screw Terminal with Pressure Plate

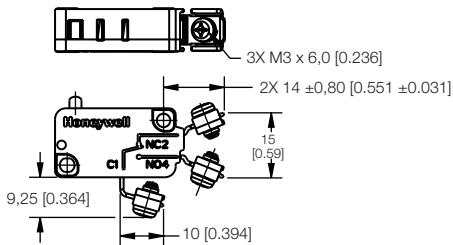
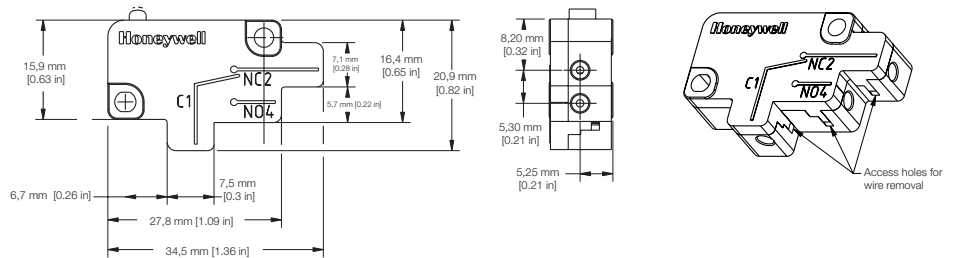


Figure 18. V15 Series U-Style Push-In Terminal (only allowed with V15S11)



MICRO SWITCH STANDARD BASIC SWITCHES V15 SERIES

STANDARD LEVER OPTIONS • DIMENSIONS

Figure 19. V15 Series A01/Straight Short Lever

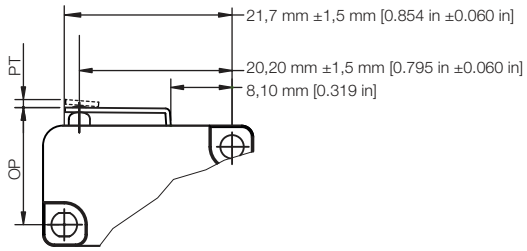


Figure 20. V15 Series A02/Standard Straight Lever

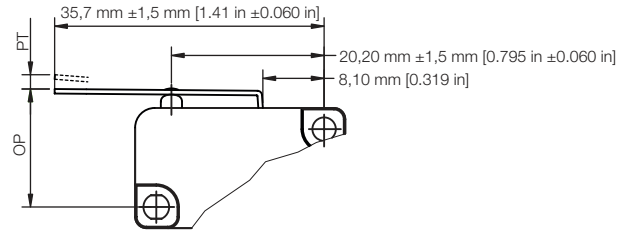


Figure 21. V15 Series A03/Long Straight Lever

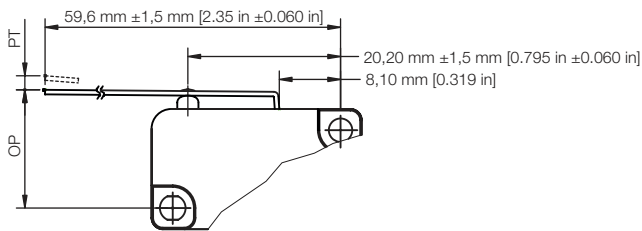


Figure 22. V15 Series A04/Simulated Roller Lever

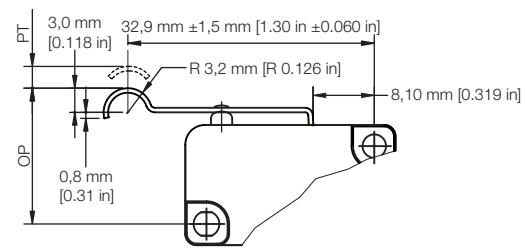


Figure 23. V15 Series A05/Short Roller Lever

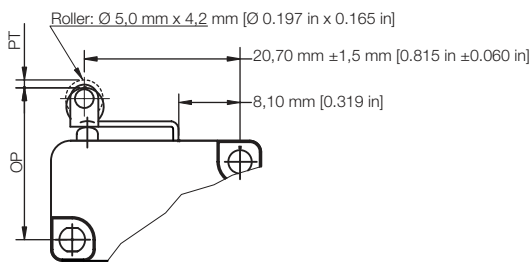
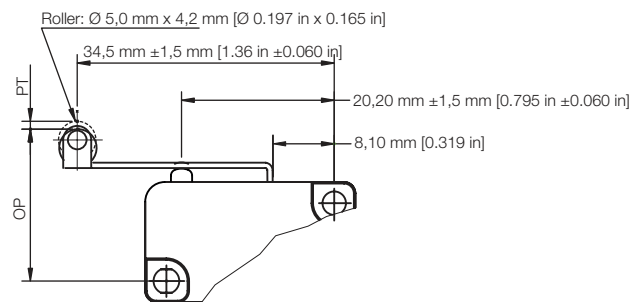
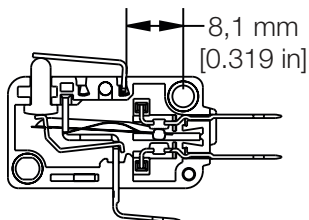


Figure 24. V15 Series A06/Roller Lever

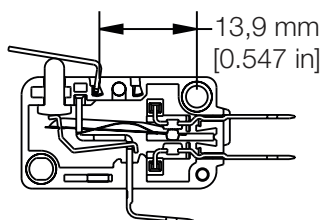


NOTE: These dimensions apply for the "A" lever position. For the "B" lever position, please add 5,7 mm [0.224 in].




Position A



Position B



HONEYWELL UNSEALED V BASIC PORTFOLIO

	V7	V15	V19
			
Target Market	Applications requiring precision, long term reliability, and design flexibility in electrical ratings	Cost sensitive applications requiring configurability in actuation, termination, and operating characteristics	Applications in major and small appliances or designs that require simple configurations
Differentiator	Wide range of max operating force and precise differential travel specs key for a more accurate switch actuation	Industry standard switch footprint and global certifications ideal for “low-cost-of-failure” applications	Provides balance between cost and performance in high-volume switch applications
Options	MIL-PRF-8805 listings available V3 family designed for rugged applications where reliability and repeatability is key	Multiple Contact Material Options Contact variants to enable design and regulation compliance	RAST Termination Multiple RAST standard terminal options for optimizing automated manufacturing processes

RELATED DOCUMENTATION

- V Basics Range Guide
- Applying Precision Switches
- V7 Datasheet
- V15 Datasheet
- Product application-specific information
 - Application note: Electronic sensors and electromechanical switches in valves and flow meters
 - Application note: Electronic sensors and MICRO SWITCH switches in industrial air compressors
 - Application note: Sensors and switches for potential HVAC/R applications
 - Application note: Sensors and switches for valve monitors and valve indicators
 - Application note: Sensors and switches in sanitary valves
 - Case study: Switching it up
 - Technical bulletin: Applying precision switches

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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.

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- Consult with local safety agencies and their requirements when designing a machine-control link, interface and all control elements that affect safety.
- Strictly adhere to all installation instructions.

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.

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