Honeywell

MICRO SWITCH™
Miniature Sealed Basic Switches
SE and XE Series

Datasheet

MICRO SWITCH™ SE and XE Series Miniature Sealed Basic Switches

Honeywell SE and XE miniature sealed basic switches are designed for precise and reliable position indication of critical applications on aircraft and military systems. The applications range from military and commercial aircraft and helicopters to military land vehicles (track and wheeled vehicles). These switches are also suitable for other commercial and industrial applications where a degree of environmental sealing is required.

The environmentally sealed SE Series is designed for demanding applications where water and/or particulate contaminant is present along with the potential for a wide range of temperatures. The SE Series incorporates the Honeywell time-proven MICRO SWITCH™ SM Series electromechanical switches in the SE housing.

The environmentally sealed miniature XE Series is similar to the SE Series except smaller in package size, utilizing the Honeywell MICRO SWITCH™ SX subminiature electromechanical switch. In addition, select Honeywell XE switches are MIL-PRF-8805 qualified satisfying the requirements where a military qualified or compliant switch is required.

To add to the versatility of the SE and XE family of products, CSA and UL certified products are available where the application is not aerospace or military related.

What makes our switches better?

- SE Series is certified by UL and CSA. XE Series holds approval from UL and within the family qualified to MIL-PRF-8805
- Built with high quality MICRO SWITCH™ switching mechanism: SE Series features MICRO SWITCH™ SM switches and XE Series is built with MICRO SWITCH™ SX switches
- Available with pin plungers or auxiliary levers to meet equipment requirements
- Designed for control of circuits ranging from logic level to power duty

Big performance in a little package.

HIGH PERFORMANCE • DURABILITY
COMPACT • CUSTOMIZATION/CONFIGURABLE

Features and Benefits

MIL-QUALIFIED AND AGENCY CERTIFIED

Military qualified listings offered in the MICRO SWITCH™ XE product family are for onboard or support equipment as specified. UL and CSA certified products are available for use where the application is not aerospace or military related.

COMPACT AND SEALED

Miniature overall package size **requires less space on the equipment.** SE and XE Series switches are environmentally sealed in a small package for stringent indoor or outdoor applications where liquid and/or particulate contaminates are present.

Tiny, tough, and high-temp rated

WELL SUITED FOR HIGH TEMPERATURES

SE/XE switches boast temperature ratings from -53 °C to 105 °C [-65 °F to 221 °F] for design flexibility, with **high temperature options** to 149 °C [300 °F].

LOW VOLTAGE AND POWER DUTY CAPABILITY

SE/XE product are available with **silver contacts** for control of power duty circuits or **gold contacts** for control of logic level circuits.

LEVERS FURTHER EXPAND FUNCTIONALITY

Auxiliary actuators expand the capability of the products for additional applications.

RANGE OF TERMINATION OPTIONS

Electrical connectivity options include solder post, preleaded with MIL-rated leadwire, or custom connectivity to **decrease installation time.**

Potential Applications

MILITARY AIRCRAFT AND HELICOPTERS

- Monitor doors or panels whether open/closed or locked/unlocked
- Mechanical position of actuators
- Valve position open or closed in conjunction with the hydraulics, fuel, and other systems
- Missile, bomb, and ordnance systems

COMMERCIAL AIRCRAFT AND HELICOPTERS

- Monitor doors or panels whether open/closed or locked/unlocked
- Mechanical position of actuators
- Valve position open or closed in conjunction with the hydraulics, fuel, and other systems

AVIATION GROUND SUPPORT EQUIPMENT

- Monitoring doors or panels
- Valve position whether open or closed

MILITARY LAND VEHICLES (TRACK AND WHEELED VEHICLES)

- Monitor position of doors, guards
- Monitor position of valves and solenoids

MICRO SWITCH™ Miniature Sealed Basic Switches

Table 1. Specifications

Characteristic	SE Series	XE Series
Description	environmentally sealed switch	environmentally sealed miniature switch
Housing material	Anodized aluminum	Anodized aluminum
Mechanical endurance	please contact info.sc@honeywell.com for details	25,000
Electrical endurance	please contact info.sc@honeywell.com for details	25,000
Circuitry	SPST (NC), SPST (NO), SPDT	SPST (NC), SPST (NO), SPDT
Electrical termination	epoxy sealed leadwire, (0,52 mm^2 [20 awg]) or epoxy sealed solder pins	epoxy sealed leadwire, (0,52 mm^2 [20 awg]) or epoxy sealed solder pins
Electrical rating	5 A @ 30 Vdc; 5 A @ 250 Vac, 60 Hz	7 A @ 28 Vdc; 7 A @ 250 Vac, 60 Hz
Sealing	Symbol 3 “watertight” per MIL-PRF-8805	Symbol 3 “watertight” per MIL-PRF-8805
Temperature range	-53 °C to 105 °C [-65 °F to 221 °F] (standard) -26 °C to 85 °C [-15 °F to 185 °F] (5SE Series)	-53 °C to 105 °C [-65°F to 221 °F] (standard) -26 °C to 85 °C [-15 °F to 185 °F] (5XE Series)
Temperature range (optional)	please contact info.sc@honeywell.com for details	-53 °C to 149 °C [-65°F to 300 °F] (14XE Series)
Vibration	Grade 2 (15 G) per MIL-PRF-8805	Grade 2 (15 G) per MIL-PRF-8805
Approvals	UL, CSA	UL, MIL-PRF-8805
Actuators	Top pin plunger, optional auxiliary actuators available	Top pin plunger, optional auxiliary actuators available

Table 2. Electrical Ratings

Rating code	SE/XE Series
A	Sea level @ 28 Vdc; 5 A res. and 3 A ind. 50,000 feet @ 28 Vdc; 5 A res. and 2.5 A ind. General purpose; 5 A res. and 5 A ind. at 125 or 250 Vac, 60 Hz
B	UL and CSA rating; 5 A at 125 or 250 Vac, 60 Hz
C	Sea level @ 28 Vdc; 7 A res. and 4 A ind. 50,000 feet @ 28 Vdc; 7 A res. and 2.5 A ind. General purpose; 7 A res. and 4 A ind. at 115 Vac, 400 Hz
D	UL rating; 7 A at 125 or 250 Vac, 60 Hz
E	Sea level @ 28 Vdc; 7 A res. and 4 A ind. 50,000 feet @ 28 Vdc; 7 A res and 2.5 A ind.
F	Logic level @ 28 Vdc; 1 amp res. and 0.50 A ind.

ELECTROMECHANICAL SWITCHES

Definitions below explain the meaning of operating characteristics. Characteristics shown in tables were chosen as most significant. They are taken at normal room temperature and humidity. These may vary as temperature and humidity conditions differ. Sketches show how characteristics are measured for in-line plunger actuation.

Linear dimensions for in-line actuation are from top of plunger to a reference line, usually the center of the mounting holes.

Differential Travel (D.T.) – Plunger or actuator travel from point where contacts "snap-over" to point where they "snap-back."

Free Position (F.P.) – Position of switch plunger or actuator when no external force is applied (other than gravity).

Full Overtravel Force – Force required to attain full overtravel of actuator.

Operating Position (O.P.) – Position of switch plunger or actuator at which point contacts snap from normal to operated position. Note that in the case of flexible or adjustable actuators, the operating position is measured from the end of the lever or its maximum length. Location of operating position measurement shown on mounting dimension drawings.

Operating Force (O.F.) – Amount of force applied to switch plunger or actuator to cause contact "snap-over." Note in the case of adjustable actuators, the force is measured from the maximum length position of the lever.

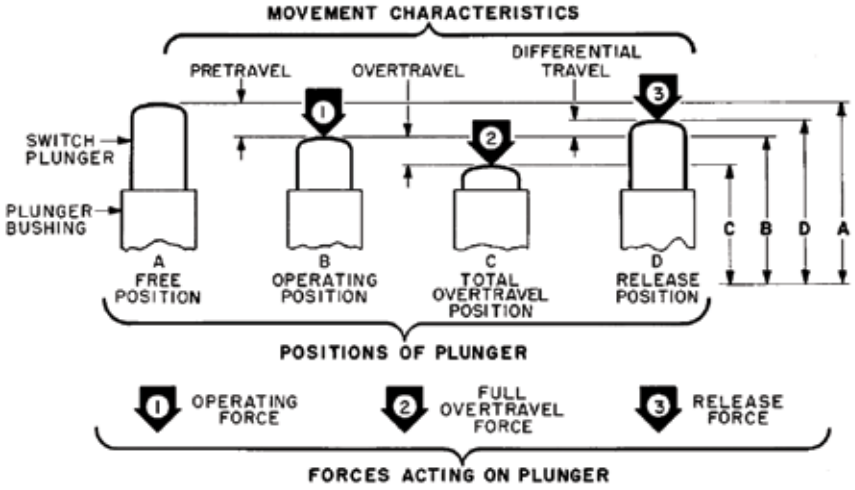
Overtravel (O.T.) – Plunger or actuator travel safely available beyond operating position.

Pretravel (P.T.) – Distance or angle traveled in moving plunger or actuator from free position to operating position.

Release Force (R.F.) – Amount of force still applied to switch plunger or actuator at moment contacts snap from operated position to unoperated position.

Total Travel (T.T.) – Distance from actuator free position to overtravel limit position.

IN-LINE PLUNGER ACTUATION



MICRO SWITCH™ Miniature Sealed Basic Switches

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

MICRO SWITCH™ SE PRODUCT SPECIFICATIONS AND LISTINGS

Contact your Honeywell rep or distributor for additional listings

	Catalog Listing	Elect. Rating Spec. (page 5)	Contacts	Termination mm [in]	O.F. g [oz]	R.F. min. g [oz]	P.T. max. mm [inches]	O.T. min. mm [inches]	D.T. max. mm [inches]	O.P. nom. mm [inches]	Comment
(see Figure 1)	**1SE1**	A	SPDT	Wire leads (3) 305 [12]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,08 [0.003]	0,1 [0.004]	10,8 [0.425]	General purpose
	1SE2	A	SPST, NC	Wire leads (2) 305 [12]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,08 [0.003]	0,1 [0.004]	10,8 [0.425]	Single circuit only
	1SE3	A	SPST, NO	Wire leads (2) 305 [12]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,08 [0.003]	0,1 [0.004]	10,8 [0.425]	Single circuit only
	1SE401	F	SPDT	Wire leads (3) 305 [12]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,08 [0.003]	0,1 [0.004]	10,8 [0.425]	Gold bifurcated contacts
	4SE1	B	SPDT	Wire leads (3) 305 [12]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,08 [0.003]	0,1 [0.004]	10,8 [0.425]	UL, CSA
	5SE1	A	SPDT	Wire leads (3) 305 [12]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,08 [0.003]	0,1 [0.004]	10,8 [0.425]	Oil resistant fluorosilicone seal
	7SE1	A	SPDT	Wire leads (3) 305 [12]	113 to 227 [4 to 8]	57 [2]	1,27 [0.050]	0,08 [0.003]	0,1 [0.004]	10,8 [0.425]	Lower force
(see Figure 2)	**1SE1-T**	A	SPDT	Solder pins	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,08 [0.003]	0,1 [0.004]	10,8 [0.425]	Solder terminals
	12SE4-T	A	SPDT	Solder pins	142 to 539 [5 to 19]	113 [4]	1,27 [0.050]	0,08 [0.003]	0,1 [0.004]	10,8 [0.425]	Higher force

SE and XE Series

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

MICRO SWITCH™ XE PRODUCT SPECIFICATIONS AND LISTINGS

Contact your Honeywell rep or distributor for additional listings

	Catalog Listing	Elect. Rating Spec. (page 5)	Contacts	Termination mm [in]	O.F. g [oz]	R.F. min. g [oz]	P.T. max. mm [in]	O.T. min. mm [in]	D.T. max. mm [in]	O.P. nom. mm [in]	Comment
(see Figure 3)	**1XE1* [MS27994-1]**	C	SPDT	Wire leads (3) 305 [12]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,1 [0.004]	0,13 [0.005]	10,8 [0.425]	MIL-PRF 8805 applications
	1XE201* [MS27994-4]	C	SPDT	Wire leads (3) 305 [12]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,1 [0.004]	0,13 [0.005]	10,8 [0.425]	MIL-PRF 8805 applications
	1XE2-3	C	SPNC	Wire leads (2) 914 [36]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,1 [0.004]	0,13 [0.005]	10,8 [0.425]	Normally closed circuit
	1XE3	C	SPNO	Wire leads (3) 305 [12]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,1 [0.004]	0,13 [0.005]	10,8 [0.425]	Normally open circuit
	1XE301* [MS27994-5]	F	SPDT	Wire leads (3) 305 [12]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,1 [0.004]	0,13 [0.005]	10,8 [0.425]	Gold bifurcated contacts
	4XE1	D	SPDT	Wire leads (3) 305 [12]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,1 [0.004]	0,13 [0.005]	10,8 [0.425]	UL
	5XE1	C	SPDT	Wire leads (3) 305 [12]	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,1 [0.004]	0,13 [0.005]	10,8 [0.425]	Oil resistent fluorosilicone seal
	14XE1	E	SPDT	Wire leads (3) 305 [12]	255 [9] max.	57 [2]	0,76 [0.030]	0,1 [0.004]	0,13 [0.005]	10,9 [0.430]	High temp. 149 °C [300 °F]
(see Figure 4)	**1XE401-T**	F	SPDT	Solder pins	142 to 482 [5 to 17]	85 [3]	1,27 [0.050]	0,1 [0.004]	0,13 [0.005]	10,8 [0.425]	Gold bifurcated contacts
	14XE1-T	E	SPDT	Solder pins	255 [9] max.	57 [2]	0,76 [0.030]	0,1 [0.004]	0,13 [0.005]	10,9 [0.430]	High temp. 149 °C [300 °F]
	14XE1-T* [MS27994-3]	C	SPDT	Solder pins	142 to 482 [5 to 17]	113 [4]	1,27 [0.050]	0,1 [0.004]	0,13 [0.005]	10,8 [0.425]	Mil-PRF 8805

* Reference MIL-PRF-8805/32

MICRO SWITCH™ Miniature Sealed Basic Switches

MICRO SWITCH™ JE SERIES AUXILIARY ACTUATORS FOR THE MICRO SWITCH™ SE SERIES SWITCHES (specifications when assembled to 1SE1)

		Description	Actuator Length	Operting Force max.	Release Force min.	Pretravel max.	Overtravel min.	Differential Travel max.	Operating Point nom.	Free Position nom.
JE-1	*(see Figure 5)*	Straight leaf *(mounting hardware included)*	16,8 mm [0.66 in]	340 g [12 oz]	57 g [2 oz]	3,81 mm [0.150 in]	0,38 mm [0.015 in]	0,64 mm [0.025 in]	11,2 mm [0.44 in]	15 mm [0.59 in]
JE-4	*(see Figure 6)*	Roller leaf, roller rotated 90° to switch axis *(mounting hardware included)*	16,8 mm [0.66 in]	340 g [12 oz]	57 g [2 oz]	3,81 mm [0.150 in]	0,38 mm [0.015 in]	0,64 mm [0.025 in]	16,3 mm [0.64 in]	20,1 mm [0.79 in]
JE-5	*(see Figure 7)*	Roller leaf *(mounting hardware included)*	15,2 mm [0.60 in]	340 g [12 oz]	57 g [2 oz]	3,81 mm [0.150 in]	0,38 mm [0.015 in]	0,64 mm [0.025 in]	16,3 mm [0.64 in]	20,1 mm [0.79 in]
JE-17	*(see Figure 8)*	Roller leaf [reversed] *(mounting hardware included)*	15,2 mm [0.60 in]	340 g [12 oz]	57 g [2 oz]	3,81 mm [0.150 in]	0,38 mm [0.015 in]	0,64 mm [0.025 in]	16,3 mm [0.64 in]	20,1 mm [0.79 in]
JE-21	*(see Figure 9)*	Roller lever	13,7 mm [0.540 in]	170 g [6 oz]	28 g [1 oz]	2,54 mm [0.100 in]	0,25 mm [0.01 in]	0,41 mm [0.016 in]	16,3 mm [0.64 in]	18,8 mm [0.74 in]
JE-22	*(see Figure 10)*	Tandem roller lever	17,8 mm [0.700 in]	482 g [17 oz]	113 g [4 oz]	2,54 mm [0.100 in]	0,15 mm [0.006 in]	0,3 mm [0.012 in]	16,8 mm [0.66 in]	19,3 mm [0.76 in]

** Travel characteristics on tandem actuators vary with actual basic switch characteristics

MICRO SWITCH™ JM SERIES AUXILIARY ACTUATORS FOR THE MICRO SWITCH™ XE SERIES SWITCHES (specifications when assembled to 1XE1)

		Description	Actuator Length	Operating Force max.	Release Force min.	Pretravel max.	Overtravel min.	Differential Travel max.	Operating Point nom.	Free Position nom.
JM-1	*(see Figure 11)*	Straight leaf *(mounting hardware included)*	11,4 mm [0.45 in]	595 g [21 oz]	85 g [3 oz]	3,18 mm [0.125 in]	0,23 mm [0.009 in]	0,3 mm [0.012 in]	10,8 mm [0.425 in]	14 mm [0.55 in]
JM-5	*(see Figure 12)*	Roller leaf *(mounting hardware included)*	9,5 mm [0.375 in]	595 g [21 oz]	85 g [3 oz]	3,18 mm [0.125 in]	0,23 mm [0.009 in]	0,3 mm [0.012 in]	15,9 mm [0.625 in]	19,1 mm [0.75 in]

** Travel characteristics on tandem actuators vary with actual basic switch characteristics

PRODUCT AND ACTUATOR DIMENSIONS

Figure 1. MICRO SWITCH™ SE Dimensions, Wire Lead

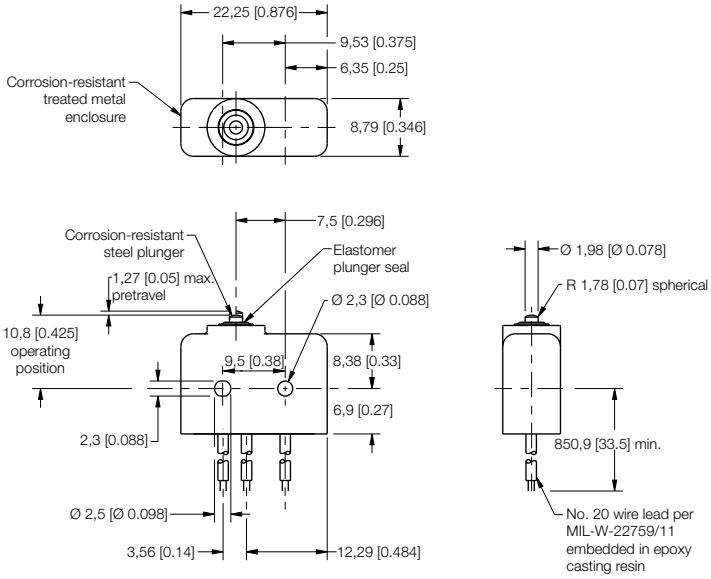


Figure 2. MICRO SWITCH™ SE Dimensions, Solder Terminal

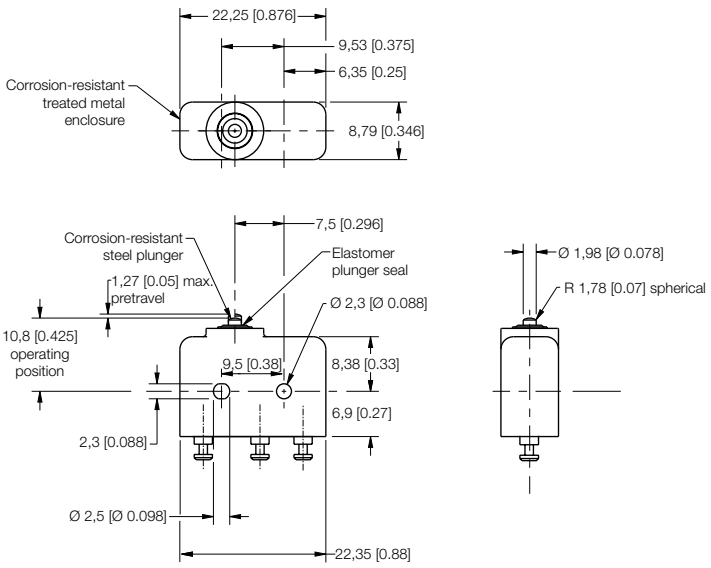


Figure 3. MICRO SWITCH™ XE Dimensions, Wire Lead

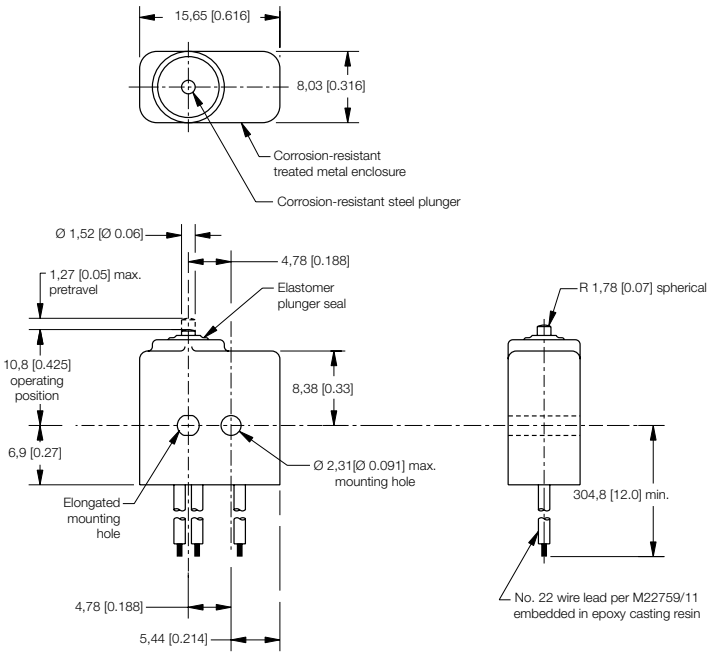
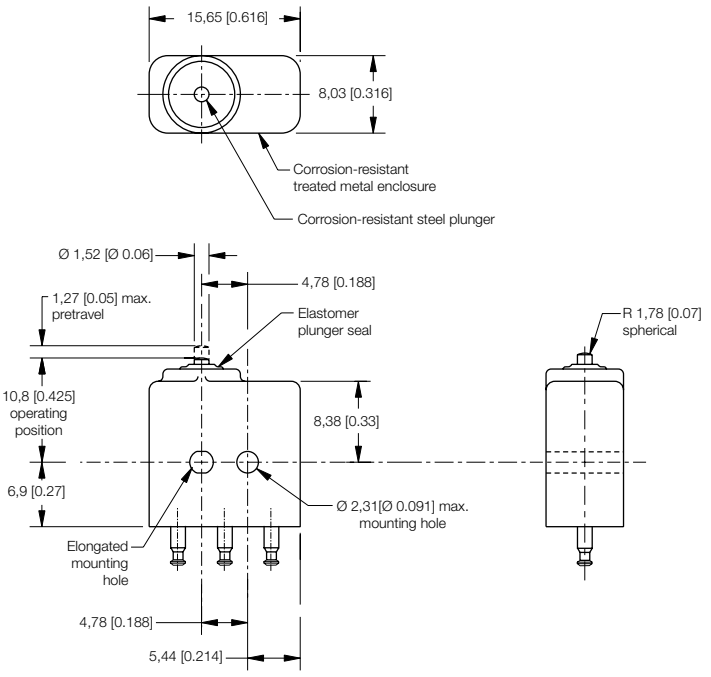


Figure 4. MICRO SWITCH™ XE Dimensions, Solder Terminal



MICRO SWITCH™ Miniature Sealed Basic Switches

Figure 5. JE-1 Dimensions

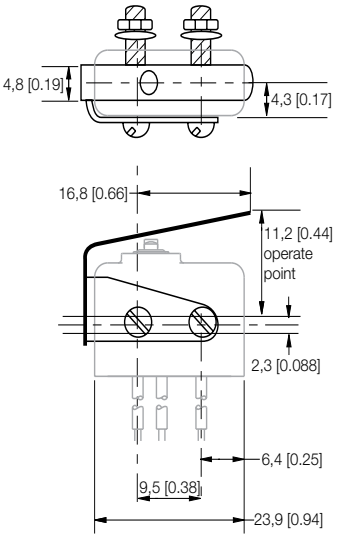


Figure 6. JE-4 Dimensions

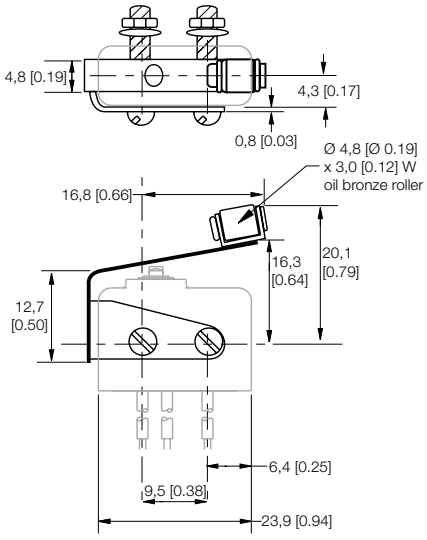


Figure 7. JE-5 Dimensions

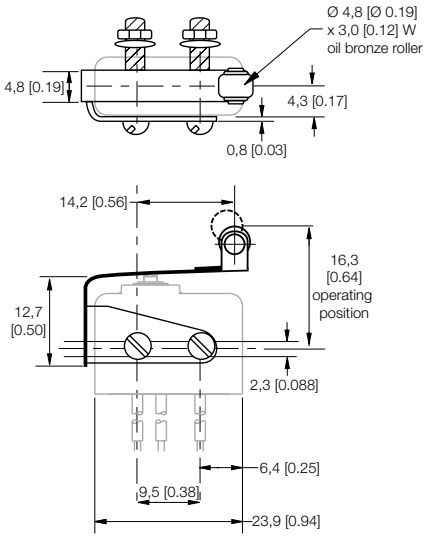


Figure 8. JE-17 Dimensions

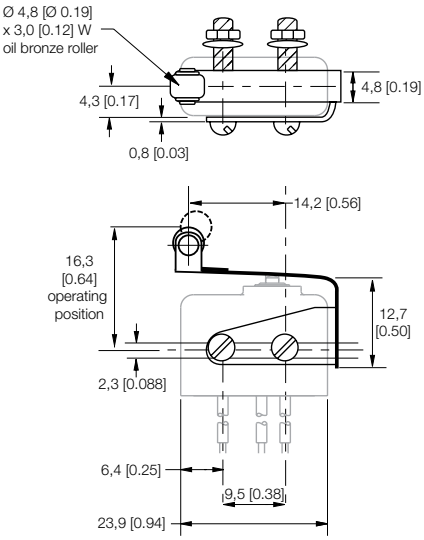


Figure 9. JE-21 Dimensions

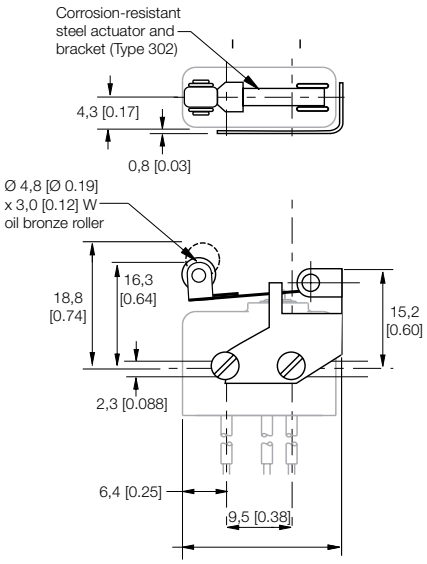


Figure 10. JE-22 Dimensions

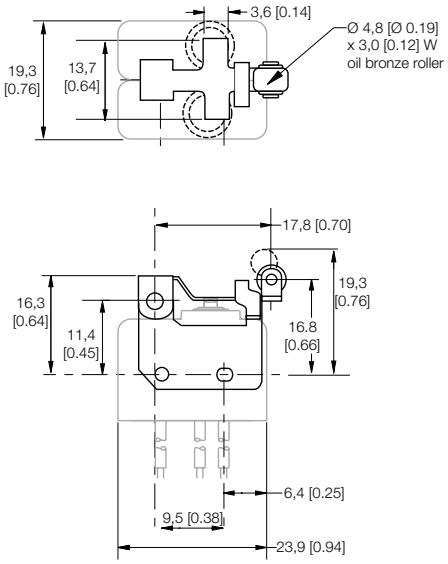


Figure 11. JM-1 Dimensions

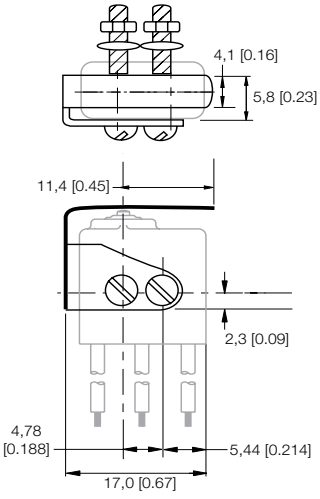
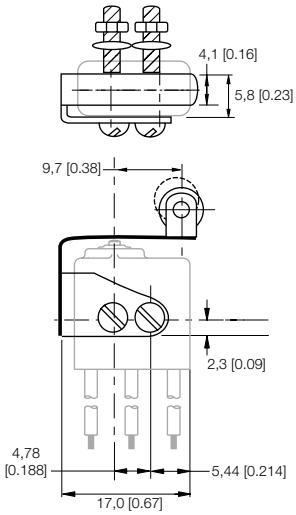


Figure 12. JM-5 Dimensions



SE and XE Series

This Honeywell datasheet supports the following MICRO SWITCH™ SE/XE Series Basic Switch Listings

12SE2
12SE3-3
12SE42
12SE4-2
12SE4-T
12SE5-T
12SE6
12SE7
14XE1
14XE1-12
14XE1-6
14XE17
14XE17-T
14XE1-T
14XE24
14XE4
14XE65
14XE66
1SE1
1SE105
1SE112
1SE1-12
1SE113-3
1SE114-8
1SE118-8
1SE119
1SE1-2
1SE120
1SE1-3
1SE1-3N26
1SE144
1SE144-6
1SE146-3
1SE1-6
1SE1-6N26
1SE178
1SE193
1SE197
1SE198
1SE1-H58
1SE1-N79
1SE1-T
1SE2
1SE201
1SE202
1SE209
1SE211
1SE216-6
1SE227
1SE2-3
1SE25-10
1SE26
1SE2-6
1SE2-T
1SE3
1SE3-12
1SE3-2
1SE3-3
1SE3-3N26
1SE36
1SE3-6
1SE3-N26
1SE3-T
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1SE401-3
1SE401-6
1SE402-3
1SE402-6
1SE403
1SE4-2
1SE61-T
1SE65
1SE65-N64
1SE65-N65
1SE65-N82
1SE7
1SE7-3
1SE-N21
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1XE122
1XE1-3
1XE1-6
1XE17
1XE18
1XE1-GN6
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5SE1-6
5SE166-12
5SE1-6N26
5SE175-12
5SE183-2
5SE1-N27
5SE1-T
5SE2-1
5SE218
5SE2181-3
5SE218-3
5SE223-6
5SE3-3
5SE3-6
5SE3-N43
5SE401-T
5SE-N2
5XE1
5XE1-6
5XE17
5XE17-2
5XE18
5XE1-T
5XE401-1
5XE401-T
5XE75
6SE1
6SE173
6SE175-3
6SE315
6SE801
6SE803
6XE21-4
6XE27-1
6XE60-4
7SE1
7SE19
7SE1-T
7SE9-T
7XE1
91SE1
91SE1-12
91SE1-3
91SE13-3
91SE1-3N55
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91SE1-3N69
91SE1-3N85
91SE1-4
91SE14-1GN70
91SE141GN77
91SE14-1GN77
91SE14-1N71
91SE14-1N78
91SE1-6
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91SE1-TG
91SE2
91SE2-3
91SE2-6
91SE3
91SE3-3
91SE3-3N52
91SE3-GN67
91SE3-N52
91SE3-N84

ADDITIONAL INFORMATION

The following associated literature is available on the Honeywell web site at sensing.honeywell.com:

- Product installation instructions
- Product range guide
- Aerospace and defense range guide

⚠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.

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.**

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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.

Find out more

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.

To learn more about Honeywell's sensing and control products, call **+1-815-235-6847 or 1-800-537-6945**, visit **sensing.honeywell.com,** or e-mail inquiries to **info.sc@honeywell.com**

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- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
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AVIC JONHON

«JONHON» (основан в 1970 г.)

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

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