### Honeywell



# MICRO SWITCH™ Miniature Sealed Basic Switches SE and XE Series



### 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<sup>™</sup> switching mechanism: SE Series features MICRO SWITCH<sup>™</sup> SM switches and XE Series is built with MICRO SWITCH<sup>™</sup> 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.

## 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

**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 mm² [20 awg]) or epoxy sealed solder pins	epoxy sealed leadwire, (0,52 mm² [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					
	Sea level @ 28 Vdc; 5 A res. and 3 A ind.					
A	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					
В	UL and CSA rating; 5 A at 125 or 250 Vac, 60 Hz					
	Sea level @ 28 Vdc; 7 A res. and 4 A ind.					
С	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					
	Sea level @ 28 Vdc; 7 A res. and 4 A ind.					
E	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 "snapback."

**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.

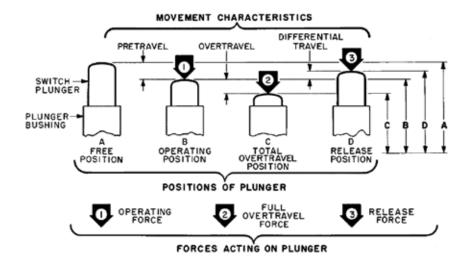
**Overtravel (O.T.)** – Plunger or actuator travel safely available beyond operating position.

**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™ SE PRODUCT SPECIFICATIONS AND LISTINGS

Contact your Honeywell rep or distributor for additional listings

O.F. • Operating force R.F. • Release force P.T. • Pretravel

O.T. • Overtravel

D.T. • Differential travel
O.P. • Operating position

	Catalog Listing	Elect. Rating Spec. (page 5)	Contacts	Termin- ation 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
	1SE1	А	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	А	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	А	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
TI	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
(see Figure 1)	4SE1	В	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	А	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	А	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
	1SE1-T	А	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
(see Figure 2)	12SE4-T	А	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

### MICRO SWITCH™ XE PRODUCT SPECIFICATIONS AND LISTINGS

Contact your Honeywell rep or distributor for additional listings

O.F. • Operating force R.F. • Release force

P.T. • Pretravel

O.T. • Overtravel

D.T. • Differential travel
O.P. • Operating position

	Catalog Listing	Elect. Rating Spec. (page 5)	Contacts	Termin- ation 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
	1XE1* [MS27994-1]	С	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]	С	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	С	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	С	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
(see Figure 3)	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	С	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]
101	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]
(see Figure 4)	14XE1-T* [MS27994-3]	С	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

<sup>\*</sup> Reference MIL-PRF-8805/32

### 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]

<sup>\*\*</sup> 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]

<sup>\*\*</sup> Travel characteristics on tandem actuators vary with actual basic switch characteristics

### PRODUCT AND ACTUATOR DIMENSIONS

Figure 1. MICRO SWITCH™ SE Dimensions, Wire Lead

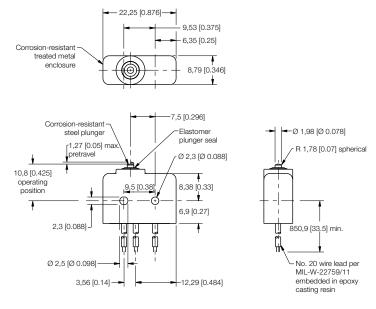


Figure 2. MICRO SWITCH™ SE Dimensions, Solder Terminal

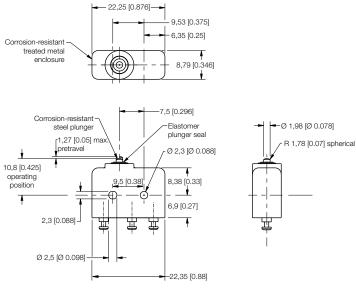


Figure 3. MICRO SWITCH™ XE Dimensions, Wire Lead

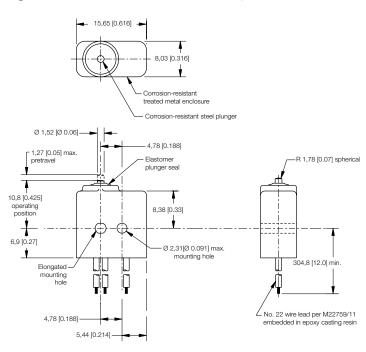


Figure 4. MICRO SWITCH™ XE Dimensions, Solder Terminal

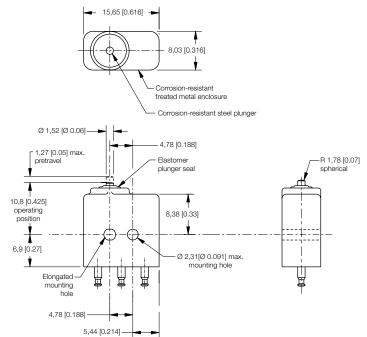


Figure 5. JE-1 Dimensions

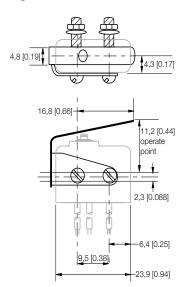


Figure 8. JE-17 Dimensions

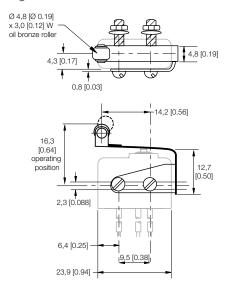


Figure 11. JM-1 Dimensions

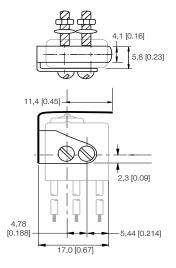


Figure 6. JE-4 Dimensions

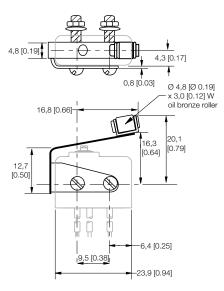


Figure 9. JE-21 Dimensions

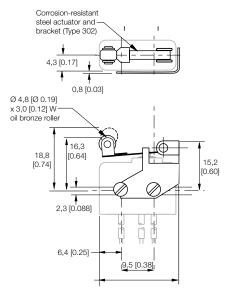


Figure 12. JM-5 Dimensions

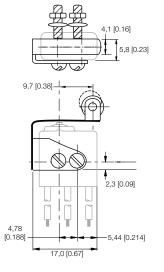


Figure 7. JE-5 Dimensions

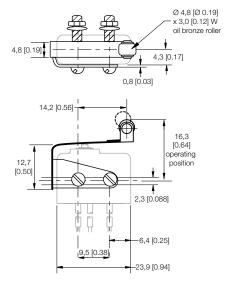
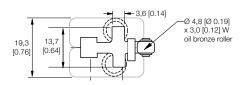
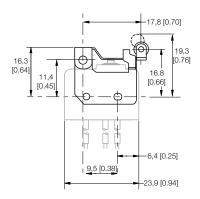


Figure 10. JE-22 Dimensions





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

15863-2   15863-2   15863-4   1586	12SE2	1SE3-12	1XE313	ESE000 6
128E42         158-3         1XE316         55E-4M3           128E4-T         158-306         1XE316         55E-4M3           128E4-T         158-36         1XE401-6         55E-4M2           128E5         158-36         1XE401-7         5KE1           128E7         158-37         1XE401-7         5KE1           128E7         158-37         1XE401         5KE1-6           128E7         158-401-8         1XE70         5KE1-7           14XE1-12         158-401-8         1XE79-9         5KE1-7           14XE1-6         158-401-6         1XE8         5KE1-7           14XE1-7         158-40-3         1XE80         5KE18           14XE1-7         158-40-3         1XE92         5KE401-1           14XE1-7         158-40-3         1XE97         5KE401-1           14XE1-7         158-40-3         1XE97         5KE401-1           14XE1-1         158-60-3         1XE97         5KE401-1           14XE24         158-1         158-60-3         5SE15-3         5SE11-1           14XE4         158-1         158-60-3         5SE15-3         5SE17-3           14XE4         158-1         158-60-3         5SE17-3         5SE				5SE223-6
128E4-2         1983-39/26         1XE31-6         55E3-M3           128E4-7         18E6         1XE40-1-6         55E-01-T           128E5-7         18E3-6         1XE401-6         55E-01-T           128E7         18E3-N26         1XE401-1         5XE1-6           14XE1         18E401         1XE70         5XE17-2           14XE1-6         18E401-3         1XE79-3         5XE17-2           14XE1-7         18E402-3         1XE83         5XE1-1           14XE1-1         18E402-3         1XE83         5XE1-1           14XE1-7         18E402-3         1XE83         5XE1-1           14XE1-7         18E402-3         1XE97         5XE401-1           14XE1-7         18E402-3         1XE97         5XE401-1           14XE1-1         18E403-3         1XE97         5XE401-1           14XE4         1SE61-1         2SE166-3         6SE1           14XE4         1SE61-1         2SE166-3         6SE17-3           14XE56         18E65-1         2SE322         6SE315           14XE56         18E65-1         2SE322         6SE316           14XE56         18E65-1         2SE322         6SE316           15E11-1				
ISSEAT				
128E5-T         15E3-A06         1XE401-6         SSE-N2           128E7         15E3-T         1XE41         5XE1-6           14XE1         15E401         1XE70         5XE17           14XE1-12         15E401-3         1XE79-3         5XE17-2           14XE1-6         15E401-3         1XE8         5XE18           14XE17         15E402-3         1XE8         5XE18           14XE17         15E402-3         1XE8         5XE18           14XE17         15E402-3         1XE92         5XE401-1           14XE17         15E402-3         1XE92         5XE401-1           14XE17         15E402-3         1XE99         5XE401-1           14XE14         15E42         1XE99-T         5XE401-1           14XE24         15E4-2         1XE99-T         5XE401-1           14XE66         15E65         2SE156-3         5SE17           14XE66         15E65-166         2SE321         6SE173-3           15E11         15E65-186         2SE322         6SE315           15E11         15E65-186         2SE322         6SE316           15E11         15E65-186         2SE322         6SE316           15E11         15E7				
12SEG         15E3-N26         1XE401-T         5XE1 6           12SET         15E3-T         1XE41         5XE16           14XE1-12         15E401-6         1XE70-3         5XE17-2           14XE1-6         15E401-6         1XE8         5XE18           14XE1-7         15E402-3         1XE83         5XE18           14XE1-T         15E402-6         1XE90         5XE401-1           14XE1-T         15E403         1XE97         5XE401-1           14XE1-T         15E403         1XE97         5XE401-1           14XE1-T         15E403         1XE97         5XE401-1           14XE1-T         15E403         1XE97         5XE401-1           14XE24         15E61-T         2SE166-3         6SE1           14XE66         15E65-N64         2SE323         6SE173           15E1         15E65-N85         2SE322         6SE315           15E10         15E65-N82         2SE323         6SE101           15E112         15E7         2SE4         6SE301           15E113         15E1-1         2SE6         6XE21-4           15E114-8         1XE1         2SE69         6XE0-4           15E119         15E7-3				
12SE7         15E41         1XE41         5KE16           1AXE1         15E401         1XE70         5XE17           1AXE1-12         15E401-3         1XE79-3         5XE17-2           1AXE1-6         15E401-6         1XE8         5XE18           1AXE17         15E402-3         1XE83         5XE11           1AXE17-1         15E402-6         1XE92         5XE401-1           1AXE1-1         15E402         1XE99         5XE401-1           1AXE1-1         15E403         1XE99         5XE401-1           1AXE4         15E61-1         2SE156-3         6SE1           1AXE6         15E61-1         2SE156-3         6SE1           1AXE6         15E65-N64         2SE321         6SE173           1AXE6         15E65-N66         2SE322         6SE315           1SE106         15E65-N66         2SE322         6SE315           1SE112         15E7-3         2SE6         6SE21-3           1SE113         15E7-3         2SE6         6SE21           1SE114         15E7-3         2SE6         6SE315           1SE115         15E7-3         2SE44         6SE315           1SE114         15E7-3         2SE6				
1AXEI         1SE401-3         IXE70         5XE17-2           1AXEI-12         1SE401-6         1XE8         5XE17-2           1AXEI-7         1SE402-6         1XE8         5XE18           1AXEIT7         1SE402-6         1XE83         5XE1-1           1AXEIT7         1SE402-6         1XE92         5XE401-1           1AXE1-1         1SE402         1XE97         5XE401-1           1AXE4         1SE40-2         1XE97         5XE401-1           1AXE4         1SE61-8         1XE97         5XE401-1           1AXE4         1SE61-8         2SE167-3         6SE1           1AXE66         1SE66-N61         2SE167-3         6SE1           1AXE66         1SE66-N62         2SE322         6SE315           1SE11         1SE66-N65         2SE322         6SE315           1SE112         1SE7-3         2SE6         6XE01-4           1SE113-3         1SE7-1         2SE4         6SE803           1SE114-8         1XE1         2SE69         6XE00-4           1SE119-8         1XE12         2XE69         7SE1           1SE119-8         1XE12         2XE69         7SE1           1SE119-8         1XE14         3S				
1AXE1-12         1SE401-3         1XE79-3         5XE17-2           1AXE1-6         1SE401-6         1XE8         5XE18           1AXE17         1SE402-3         1XE83         5XE1-1           1AXE1-1         1SE402-6         1XE92         5XE401-1           1AXE1-1         1SE403         1XE97         5XE401-1           1AXE4         1SE4-2         1XE90-T         5XE76           1AXE4         1SE4-2         1XE90-T         5XE76           1AXE4         1SE6-1         2SE16-3         6SE173           1AXE6         1SE65         1SE65         2SE16-3         6SE173           1AXE6         1SE65-N84         2SE321         6SE175-3           1SE105         1SE65-N85         2SE323         6SE801           1SE112         1SE7-3         2SE6         6XE21-4           1SE119-3         1SE1-1         2SE6         6XE21-4           1SE119-3         1SE1-1         2SE6         6XE21-1           1SE118-8         1XE1         2SE89         7SE1           1SE119-8         1XE12         2XE59         7SE1           1SE119-8         1XE12         3SE81         7SE1-T           1SE119-8         1XE1-6				
14XE1-6         15E401-6         1XE8         5XE18           14XE17         15E402-6         1XE93         5XE401-1           14XE1-17         15E402-6         1XE97         5XE401-1           14XE1-1         15E402         1XE97         5XE401-1           14XE24         15E4-2         1XE99-1         5XE75           14XE4         15E61-1         25E156-3         6SE1           14XE66         15E65         25E157-3         6SE173           14XE66         15E65-N64         25E321         6SE175-3           15E10         15E65-N65         25E322         6SE305           15E10         15E65-N62         2SE323         6SE301           15E112         15E73         25E4         6SE303           15E112         15E73         25E6         6XE21-4           15E113-3         15E-N21         25E89         6XE60-4           15E118-8         1XE122         2XE69         7SE1           15E119-8         1XE122         2XE69         7SE1-1           15E120         1XE1-6         39SE10         7SE1-1           15E1-8         1XE18         39SE10         7SE1-1           15E144-6         1XE20         39				
14XE17         1SE402-6         1XE90         5XE401-1           14XE1-T         1SE403         1XE92         5XE401-T           14XE24         1SE4-2         1XE99-T         5XE401-T           14XE4         1SE61-T         2SE156-3         6SE1           14XE6         1SE65-N61         2SE157-3         6SE173           14XE66         1SE65-N84         2SE321         6SE173           15E1         1SE65-N85         2SE322         6SE315           15E10         1SE65-N82         2SE323         6SE801           15E112         1SE7         2SE4         6SE803           15E112         1SE73         2SE62         6SE315           15E112         1SE7-3         2SE62         6SE301           15E114-8         1XE1         2SE89         6KE60-4           15E118-8         1XE1         2SE89         6KE60-4           15E118-8         1XE1-3         2XE88         7SE1           15E1-12         1XE1-3         3SE10         7SE1-T           15E1-2         1XE16         39SE1         7SE1-T           15E1-3         1XE18         39SE1         7SE1-T           15E1-4         1XE1         39SE1				
IAMEIT-T         ISE402-6         IXE02         SXE401-1           IAXE1-T         ISE403         IXE09-T         SXE401-T           IAXE4         ISE61-T         2SE166-3         6SE17           IAXE6         ISE65         2SE167-3         6SE173           IAXE66         ISE65-N64         2SE321         6SE175-3           ISE1         ISE65-N65         2SE322         6SE315           ISE105         ISE66-N82         2SE323         6SE301           ISE112         ISE7-3         2SE4         6SE303           ISE112         ISE7-3         2SE6         6XE21-4           ISE113-3         ISE-N21         2SE62         6XE21-4           ISE114-8         IXE1         2SE69         6XE21-4           ISE119-9         IXE122         2XE89         7SE1           ISE119-1         IXE1-6         39SE10         7SE1-7           ISE120         IXE17         39SE11         7SE9-7           ISE1-13         IXE16         39SE2         7XE1           ISE1-3         IXE16-NB         39SE2-1         7XE1           ISE1-46         IXE201         39SE8         91SE1-3           ISE1-47-6         IXE203 <td< td=""><td></td><td></td><td></td><td></td></td<>				
IAXE1-T         ISE403         IXE97         SXE401-T           IAXE24         ISE4-2         IXE98-T         SXE75           IAXE4         ISE61-T         SSE156-3         6SE1           IAXE65         ISE65         2SE157-3         6SE173           IAXE66         ISE65-N64         2SE321         6SE175-1           ISE105         ISE65-N82         2SE322         6SE315           ISE112         ISE7         2SE4         6SE801           ISE112         ISE7-3         2SE6         6XE21-4           ISE113-3         ISE-N21         2SE62         6XE21-4           ISE118-8         IXE1         2SE89         6XE60-4           ISE119-8         IXE122         2XE59         7SE1           ISE119-8         IXE1-8         3SE10         7SE1-7           ISE119-8         IXE1-8         3SE10         7SE1-7           ISE120         IXE1-8         3SE10         7SE1-7           ISE14-8         IXE1-8         3SE20         YE59-7           ISE144         IXE1-8         3SE20         YE51-7           ISE1-3N26         IXE18         3SE29         9ISE1-3           ISE1-3N26         IXE20         3SE8 <td></td> <td></td> <td></td> <td></td>				
1AKE24         1SE6-2         1KE9-T         5KE75           1AKE66         1SE66         2SE156-3         6SE173           1AKE66         1SE65-N64         2SE321         6SE17-3           1SE1         1SE65-N64         2SE321         6SE17-3           1SE105         1SE65-N62         2SE322         6SE316           1SE112         1SE7         2SE4         6SE803           1SE1-12         1SE7-3         2SE6         6KE21-4           1SE1-12         1SE7-3         2SE6         6KE21-4           1SE113-3         1SE-N21         2SE62         6KE21-4           1SE118-8         1XE1         2SE68         6KE21-1           1SE119-9         1XE1-3         2KE68         7SE1           1SE1-19         1XE1-6         39SE10         7SE1-7           1SE1-20         1XE1-6         39SE10         7SE1-7           1SE1-3         1XE18         39SE21         7KE1           1SE1-46         1XE1-GN6         39SE20         7SE1           1SE1-46         1XE20         39SE9         9ISE1-3           1SE1-46-3         1XE20         39SE9         9ISE1-3N52           1SE1-6         1XE204         39KE96 </td <td>14XE17-T</td> <td>1SE402-6</td> <td></td> <td>5XE401-1</td>	14XE17-T	1SE402-6		5XE401-1
1AXE4         1SE61-T         2SE156-3         6SE173           1AXE66         1SE65-N64         2SE321         6SE176-3           1SE1         1SE65-N65         2SE322         6SE315           1SE10         1SE65-N65         2SE322         6SE315           1SE105         1SE65-N82         2SE323         6SE801           1SE112         1SE7         2SE4         6SE303           1SE113-3         1SE-N21         2SE66         6XE21-4           1SE114-8         1XE1         2SE89         6XE60-4           1SE114-8         1XE1         2SE89         6XE60-4           1SE119-8         1XE12         2XE89         7SE1           1SE119-1         1XE13         2XE89         7SE1           1SE119-1         1XE1-3         2XE89         7SE1           1SE119-1         1XE1-3         3SE10         7SE1-7           1SE1-18-8         1XE1-6         3SSE10         7SE1-7           1SE1-19         1XE1-7         3SSE10         7SE1-7           1SE1-19         1XE16         3SSE21         7XE1           1SE1-3         1XE18         3SSE21         7XE1           1SE1-46-6         1XE20         3SSE6				5XE401-T
14XE65         1SE65-N64         2SE321         6SE175-3           14XE66         1SE65-N64         2SE322         6SE175-3           1SE105         1SE65-N82         2SE323         6SE801           1SE112         1SE7         2SE4         6SE803           1SE1-12         1SE7-3         2SE6         6KE21-4           1SE113-3         1SE-N21         2SE82         6KE21-4           1SE118-8         1XE1         2SE89         6KE0-4           1SE118-8         1XE122         2KE59         7SE1           1SE119         1XE1-3         2XE68         7SE19           1SE1-2         1XE1-6         39SE10         7SE1-T           1SE1-3         1XE17         39SE11         7SE9-T           1SE1-3         1XE16         39SE21         7XE1           1SE1-3N26         1XE1-GN6         39SE27         91SE1           1SE1-44-6         1XE201         39SE9         91SE1-3           1SE1-6-3         1XE201         39SE9         91SE1-3N52           1SE1-6-8026         1XE203         39XE90         91SE1-3N52           1SE1-6-8026         1XE204         39XE9         91SE1-3N52           1SE193         1XE204		1SE4-2	1XE99-T	
14XE66         1SE65-N64         2SE322         6SE175-3           1SE1         1SE65-N65         2SE322         6SE315           1SE105         1SE66-N62         2SE323         6SE801           1SE112         1SE7         2SE4         6SE803           1SE112         1SE7-3         2SE6         6XE21-4           1SE113-3         1SE-N21         2SE62         6XE27-1           1SE114-8         1XE1         2SE89         6XE60-4           1SE118-8         1XE12         2XE59         7SE1           1SE119         1XE1-3         2XE68         7SE19           1SE120         1XE1-6         39SE10         7SE1-1           1SE123         1XE18         39SE11         7SE9-T           1SE1-3         1XE18         39SE21         7XE1           1SE1-3         1XE16         39SE21         7XE1           1SE1-44         1XE1-GN6         39SE22-R         91SE1           1SE1446         1XE10         39SE8         91SE1-3           1SE1446         1XE201         39SE8         91SE1-3           1SE146-3         1XE202         39SE9         91SE1-3           1SE146-3         1XE203         39KE96	14XE4	1SE61-T	2SE156-3	6SE1
1SE1         1SE65-N65         2SE322         6SE315           1SE105         1SE65-N82         2SE323         6SE001           1SE112         1SF7         2SE4         6SE003           1SE1-12         1SE7-3         2SE6         6XE21-4           1SE113-3         1SE-N21         2SE62         6XE27-1           1SE114-8         1XE1         2SE69         6XE27-1           1SE118-8         1XE12         2XE59         7SE1           1SE119         1XE1-3         2XE68         7SE19           1SE1-2         1XE1-6         39SE10         7SE1-T           1SE1-3         1XE16         39SE10         7SE1-T           1SE1-3         1XE16         39SE10         7SE1-T           1SE1-3         1XE16         39SE10         7SE1-T           1SE1-3         1XE16         39SE21         7XE1           1SE1-3         1XE16         39SE22-R         91SE1-18           1SE1-40         1XE10         39SE29         91SE1-3           1SE1-46         1XE201         39SE9         91SE1-3N55           1SE1-6         1XE202         39KE400-1         91SE1-3N65           1SE1-6N26         1XE204         4SE1	14XE65	1SE65	2SE157-3	6SE173
1SE105         1SE65-N82         2SE323         6SE801           1SE112         1SE7         2SE4         6SE803           1SE1-12         1SE73         2SE6         6K21-4           1SE113-3         1SE-N21         2SE89         6K221-4           1SE114-8         1XE1         2SE89         6XE60-4           1SE114-8         1XE12         2XE59         7SE1           1SE119         1XE1-3         2XE68         7SE19           1SE119         1XE1-6         39SE10         7SE1-T           1SE120         1XE16         39SE11         7SE9-T           1SE1-3         1XE18         39SE21         7XE1           1SE1-3         1XE18         39SE21         7XE1           1SE1-44         1XE1-T         39SE8         91SE1-3           1SE144-6         1XE201         39SE8         91SE1-3           1SE1-6-3         1XE202         39SE9         91SE1-3N62           1SE1-6-6         1XE203         39XE400-1         91SE1-3N62           1SE1-6-82         1XE204         39XE96         91SE1-3N62           1SE193         1XE204         39XE90         91SE1-3N62           1SE193         1XE204         39X	14XE66	1SE65-N64	2SE321	6SE175-3
1SE112         1SE7-3         2SE4         6SE803           1SE1-12         1SE7-3         2SE6         6XE21-4           1SE113-3         1SE-N21         2SE62         6XE27-1           1SE114-8         1XE1         2SE89         6XE60-4           1SE118-8         1XE12         2XE59         7SE1           1SE119         1XE1-3         2XE68         7SE19           1SE1-2         1XE1-6         39SE10         7SE1-T           1SE120         1XE17         39SE11         7SE9-T           1SE1-3         1XE18         39SE21         7XE1           1SE1-3N26         1XE1-GN6         39SE2-R         91SE1           1SE144         1XE1-T         39SE7         91SE1-12           1SE144-6         1XE201         39SE8         91SE1-3           1SE146-3         1XE202         39SE9         91SE1-3           1SE1-6         1XE203         39XE400-1         91SE1-3N62           1SE1-6         1XE204         39XE96         91SE1-3N62           1SE1-7         1XE205         4SE1         91SE1-3N62           1SE193         1XE206         4SE1-3         91SE1-4N62           1SE198         1XE207	1SE1	1SE65-N65	2SE322	6SE315
1SE1-12         1SE7-3         2SE6         6XE21-4           1SE113-3         1SE-N21         2SE62         6XE27-1           1SE114-8         1XE1         2SE89         6XE60-4           1SE118-8         1XE122         2XE59         7SE1           1SE119         1XE1-3         2XE68         7SE19           1SE1-2         1XE1-6         39SE10         7SE1-T           1SE120         1XE17         39SE11         7SE9-T           1SE1-3         1XE18         39SE21         7XE1           1SE1-3N26         1XE1-GN6         39SE2-R         91SE1           1SE1444         1XE1-T         39SE7         91SE1-3           1SE146-3         1XE201         39SE8         91SE1-3           1SE146-3         1XE202         39SE9         91SE1-3N56           1SE1-6         1XE203         39XE40-1         91SE1-3N56           1SE1-6         1XE204         39XE96         91SE1-3N56           1SE1-8N5         1XE205         4SE1         91SE1-3N85           1SE197         1XE206         4SE1-3         91SE1-3N85           1SE198         1XE21         4SE1-6         91SE1-4GN77           1SE1-188         1XE21	1SE105	1SE65-N82	2SE323	6SE801
1SE113-3         1SE-N21         2SE69         6XE27-1           1SE114-8         1XE1         2SE69         6XE60-4           1SE118-8         1XE122         2XE69         7SE1           1SE119         1XE1-3         2XE68         7SE19           1SE1-2         1XE1-6         39SE10         7SE1-T           1SE120         1XE17         39SE1         7SE9-T           1SE1-3         1XE18         39SE21         7XE1           1SE1-3N26         1XE1-GN6         39SE2-R         91SE1           1SE144         1XE1-T         39SE7         91SE1-12           1SE146-3         1XE201         39SE9         91SE1-3           1SE146-3         1XE202         39SE9         91SE1-3N55           1SE1-6         1XE203         39XE400-1         91SE1-3N65           1SE1-6         1XE203         39XE9         91SE1-3N65           1SE193         1XE206         4SE1         91SE1-3N65           1SE199         1XE207         4SE1-6         91SE1-3N85           1SE197         1XE207         4SE1-6         91SE1-1GN7           1SE1-N79         1XE21         4XE1         91SE14-1GN77           1SE1-N79         1XE21 <td>1SE112</td> <td>1SE7</td> <td>2SE4</td> <td>6SE803</td>	1SE112	1SE7	2SE4	6SE803
1SE114-8         1XE1         2SE89         6XE60-4           1SE118-8         1XE122         2XE59         7SE1           1SE119         1XE1-3         2XE68         7SE19           1SE1-2         1XE1-6         39SE10         7SE1-T           1SE120         1XE17         39SE11         7SE9-T           1SE1-3         1XE18         39SE21         7XE1           1SE1-3N26         1XE1-GN6         39SE22-R         91SE1           1SE144         1XE1-T         39SE7         91SE1-12           1SE144-6         1XE201         39SE8         91SE1-3           1SE146-3         1XE201         39SE9         91SE1-3           1SE1-6         1XE203         39XE400-1         91SE1-3N55           1SE1-6         1XE203         39XE96         91SE1-3N62           1SE178         1XE204         39XE96         91SE1-3N62           1SE199         1XE206         4SE1-3         91SE1-3N85           1SE197         1XE207         4SE1-6         91SE1-3N85           1SE198         1XE21         4XE1         91SE14-1GN77           1SE1-N79         1XE24         4XE1         91SE14-1GN77           1SE1-N79         1XE21 </td <td>1SE1-12</td> <td>1SE7-3</td> <td>2SE6</td> <td>6XE21-4</td>	1SE1-12	1SE7-3	2SE6	6XE21-4
1SE118-8         1XE122         2XE59         7SE1           1SE119         1XE1-3         2XE68         7SE19           1SE1-2         1XE1-6         39SE10         7SE1-T           1SE120         1XE17         39SE11         7SE9-T           1SE1-3         1XE18         39SE21         7XE1           1SE1-3N26         1XE1-GN6         39SE2-R         91SE1           1SE144         1XE1-T         39SE7         91SE1-12           1SE144-6         1XE201         39SE8         91SE1-3           1SE146-3         1XE202         39SE9         91SE1-3           1SE1-6         1XE203         39XE90-1         91SE1-3N55           1SE1-6         1XE204         39XE96         91SE1-3N56           1SE1-78         1XE205         4SE1         91SE1-3N69           1SE193         1XE206         4SE1-3         91SE1-3N69           1SE193         1XE206         4SE1-3         91SE1-3N65           1SE198         1XE21         4SE171         91SE1-41GN70           1SE1-H58         1XE21         4XE1         91SE1-41GN70           1SE1-H58         1XE214         4XE1         91SE1-41GN77           1SE1-N79         1X	1SE113-3	1SE-N21	2SE62	6XE27-1
1SE119         1XE1-6         39SE10         7SE1-T           1SE120         1XE1-6         39SE10         7SE1-T           1SE120         1XE17         39SE11         7SE9-T           1SE1-3         1XE18         39SE21         7KE1           1SE1-3N26         1XE1-GN6         39SE2-R         91SE1           1SE1444         1XE1-T         39SE8         91SE1-3           1SE146-3         1XE201         39SE9         91SE1-3           1SE1-6-3         1XE202         39SE9         91SE1-3N55           1SE1-6         1XE204         39XE96         91SE1-3N62           1SE178         1XE204         39XE96         91SE1-3N62           1SE193         1XE206         4SE1         91SE1-3N69           1SE197         1XE207         4SE1-6         91SE1-4           1SE198         1XE21         4SE171         91SE14GN77           1SE1-H58         1XE21         4XE1         91SE14GN77           1SE1-N79         1XE214         4XE1-4         91SE14-1GN77           1SE1-T         1XE22         5SE1         91SE14-1N71           1SE2         1XE2-2         5SE1-3         91SE1-6           1SE201         1XE2-2 <td>1SE114-8</td> <td>1XE1</td> <td>2SE89</td> <td>6XE60-4</td>	1SE114-8	1XE1	2SE89	6XE60-4
1SE1-2         1XE1-6         39SE10         7SE1-T           1SE120         1XE17         39SE11         7SE9-T           1SE1-3         1XE18         39SE21         7XE1           1SE1-3N26         1XE1-GN6         39SE22-R         91SE1           1SE144         1XE1-T         39SE7         91SE1-12           1SE144-6         1XE201         39SE8         91SE1-3           1SE146-3         1XE202         39SE9         91SE1-3           1SE1-6         1XE203         39XE400-1         91SE1-3N55           1SE1-6N26         1XE204         39XE96         91SE1-3N62           1SE178         1XE205         4SE1         91SE1-3N62           1SE193         1XE206         4SE1         91SE1-4N69           1SE198         1XE207         4SE1-6         91SE1-4           1SE198         1XE21         4SE171         91SE14-1GN70           1SE1-H58         1XE21         4XE1         91SE14-1GN77           1SE1-N79         1XE214         4XE1         91SE14-1GN77           1SE1-T         1XE22         5SE1-3         91SE1-4           1SE201         1XE2-2         5SE1-3         91SE1-6           1SE202         1	1SE118-8	1XE122	2XE59	7SE1
1SE120         1XE17         39SE11         7SE9-T           1SE1-3         1XE18         39SE21         7XE1           1SE1-3N26         1XE1-GN6         39SE2-R         91SE1           1SE144         1XE1-T         39SE8         91SE1-12           1SE144-6         1XE201         39SE8         91SE1-3           1SE146-3         1XE202         39SE9         91SE1-3-3           1SE1-6         1XE203         39XE400-1         91SE1-3N62           1SE1-6N26         1XE204         39XE96         91SE1-3N62           1SE1-6N26         1XE205         4SE1         91SE1-3N69           1SE193         1XE206         4SE1-3         91SE1-3N69           1SE199         1XE207         4SE1-6         91SE1-4           1SE199         1XE207         4SE1-6         91SE1-4           1SE1-H58         1XE21         4SE11         91SE1-4GN70           1SE1-H58         1XE21         4XE1         91SE1-4GN70           1SE1-H58         1XE21         4XE1         91SE1-4GN77           1SE1-H58         1XE21         4XE1         91SE1-4GN77           1SE1-T         1XE21         5SE1-6         91SE1-4GN77           1SE1-T	1SE119	1XE1-3	2XE68	7SE19
1SE1-3         1XE18         39SE21         7XE1           1SE1-3N26         1XE1-GN6         39SE22-R         91SE1           1SE144         1XE1-T         39SE7         91SE1-12           1SE144-6         1XE201         39SE8         91SE1-3           1SE146-3         1XE202         39SE9         91SE1-3           1SE1-6         1XE203         39XE400-1         91SE1-3N55           1SE1-6N26         1XE204         39XE96         91SE1-3N55           1SE1-6N26         1XE205         4SE1         91SE1-3N62           1SE178         1XE205         4SE1         91SE1-3N85           1SE193         1XE206         4SE1-3         91SE1-3N85           1SE197         1XE207         4SE1-6         91SE1-4N85           1SE198         1XE21         4SE171         91SE14-1GN70           1SE1-H58         1XE21         4XE1         91SE14-1GN77           1SE1-N79         1XE214         4XE1         91SE14-1GN77           1SE1-T         1XE217         5SE1         91SE14-1N71           1SE2         1XE21         5SE1-12         91SE1-41N71           1SE20         1XE2-2         5SE1-6         91SE1-N72           1SE201<	1SE1-2	1XE1-6	39SE10	7SE1-T
1SE1-3N26         1XE1-GN6         39SE22-R         91SE1           1SE144         1XE1-T         39SE7         91SE1-12           1SE144-6         1XE201         39SE8         91SE1-3           1SE146-3         1XE202         39SE9         91SE1-3N55           1SE1-6         1XE203         39XE96         91SE1-3N55           1SE1-6N26         1XE204         39XE96         91SE1-3N62           1SE178         1XE205         4SE1         91SE1-3N89           1SE193         1XE206         4SE1-3         91SE1-3N85           1SE194         1XE207         4SE1-6         91SE1-4N85           1SE198         1XE21         4SE171         91SE1-4IGN70           1SE1-H58         1XE21         4XE1         91SE14-1GN70           1SE1-H79         1XE214         4XE1         91SE14-1GN77           1SE1-N79         1XE214         4XE1         91SE14-1N71           1SE2         1XE22         5SE1         91SE14-1N71           1SE2         1XE22         5SE1-6         91SE1-7           1SE209         1XE2-3         5SE1-6         91SE1-TG           1SE209         1XE2-6         5SE1-6N26         91SE2-3           1SE2-1 </td <td>1SE120</td> <td>1XE17</td> <td>39SE11</td> <td>7SE9-T</td>	1SE120	1XE17	39SE11	7SE9-T
1SE144         1XE1-T         39SE7         91SE1-12           1SE144-6         1XE201         39SE8         91SE1-3           1SE146-3         1XE202         39SE9         91SE1-3           1SE1-6         1XE203         39XE400-1         91SE1-3N55           1SE1-6N26         1XE204         39XE96         91SE1-3N69           1SE178         1XE205         4SE1         91SE1-3N69           1SE193         1XE206         4SE1-3         91SE1-3N85           1SE198         1XE207         4SE1-6         91SE1-4           1SE198         1XE21         4SE171         91SE14-1GN70           1SE1-H58         1XE21         4XE1         91SE14-1GN70           1SE1-H59         1XE214         4XE1         91SE14-1GN70           1SE1-H58         1XE214         4XE1         91SE14-1GN77           1SE1-N79         1XE214         4XE1         91SE14-1GN77           1SE1-T         1XE21         5SE1         91SE14-1N71           1SE2         1XE20         5SE1-3         91SE1-6           1SE201         1XE2-2         5SE1-3         91SE1-N7           1SE202         1XE2-3         5SE1-66-12         91SE1-TG           1SE21<	1SE1-3	1XE18	39SE21	7XE1
1SE144-6         1XE201         39SE8         91SE1-3           1SE146-3         1XE202         39SE9         91SE13-3           1SE1-6         1XE203         39XE400-1         91SE1-3N55           1SE1-6N26         1XE204         39XE96         91SE1-3N62           1SE178         1XE205         4SE1         91SE1-3N69           1SE193         1XE206         4SE1-3         91SE1-3N85           1SE197         1XE207         4SE1-6         91SE1-4           1SE198         1XE21         4SE171         91SE14-1GN70           1SE1-H58         1XE2.1         4XE1         91SE14-1GN77           1SE1-N79         1XE214         4XE1-4         91SE14-1GN77           1SE1-T         1XE217         5SE1         91SE14-1N71           1SE2         1XE217         5SE1         91SE14-1N71           1SE2         1XE22         5SE1-12         91SE14-1N71           1SE201         1XE2-2         5SE1-3         91SE1-6           1SE202         1XE2-3         5SE1-6         91SE1N72           1SE209         1XE24-2         5SE166-12         91SE1-TG           1SE211         1XE26-2         5SE1-6N26         91SE2           1SE2	1SE1-3N26	1XE1-GN6	39SE22-R	91SE1
1SE146-3       1XE202       39SE9       91SE1-3         1SE1-6       1XE203       39XE400-1       91SE1-3N55         1SE1-6N26       1XE204       39XE96       91SE1-3N62         1SE178       1XE205       4SE1       91SE1-3N69         1SE193       1XE206       4SE1-3       91SE1-3N85         1SE197       1XE207       4SE1-6       91SE1-4         1SE198       1XE21       4SE171       91SE14-1GN70         1SE1-H58       1XE2-1       4XE1       91SE14IGN77         1SE1-N79       1XE214       4XE1       91SE14-1GN77         1SE1-N79       1XE217       5SE1       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N78         1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE2-3       5SE1-6N26       91SE1-TG         1SE211       1XE25-2       5SE166-12       91SE2-3         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE2-7       1XE36-2       5SE1-N27       91SE3         1SE2-8	1SE144	1XE1-T	39SE7	91SE1-12
1SE146-3       1XE202       39SE9       91SE1-3         1SE1-6       1XE203       39XE400-1       91SE1-3N55         1SE1-6N26       1XE204       39XE96       91SE1-3N62         1SE178       1XE205       4SE1       91SE1-3N69         1SE193       1XE206       4SE1-3       91SE1-3N85         1SE197       1XE207       4SE1-6       91SE1-4         1SE198       1XE21       4SE171       91SE14-1GN70         1SE1-H58       1XE2-1       4XE1       91SE14IGN77         1SE1-N79       1XE214       4XE1       91SE14-1GN77         1SE1-N79       1XE217       5SE1       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N78         1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE2-3       5SE1-6N26       91SE1-TG         1SE211       1XE25-2       5SE166-12       91SE2-3         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE2-7       1XE36-2       5SE1-N27       91SE3         1SE2-8	1SE144-6	1XE201	39SE8	91SE1-3
1SE1-6N26       1XE204       39XE96       91SE1-3N62         1SE178       1XE205       4SE1       91SE1-3N69         1SE193       1XE206       4SE1-3       91SE1-3N85         1SE197       1XE207       4SE1-6       91SE1-4         1SE198       1XE21       4SE171       91SE14-1GN70         1SE1-H58       1XE2-1       4XE1       91SE14-1GN77         1SE1-N79       1XE214       4XE1-4       91SE14-1GN77         1SE1-N79       1XE214       4XE1-4       91SE14-1GN77         1SE2       1XE217       5SE1       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N78         1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE166-12       91SE2-3         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE2-3       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE2-10       1XE3       5SE1-N27       91SE3-3N52         1SE2-6	1SE146-3	1XE202	39SE9	91SE13-3
1SE178       1XE205       4SE1       91SE1-3N69         1SE193       1XE206       4SE1-3       91SE1-3N85         1SE197       1XE207       4SE1-6       91SE1-4         1SE198       1XE21       4SE171       91SE14-1GN70         1SE1-H58       1XE2-1       4XE1       91SE14-1GN77         1SE1-N79       1XE214       4XE1-4       91SE14-1GN77         1SE1-T       1XE217       5SE1       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N78         1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE166-12       91SE2-3         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-7       1XE306       5SE2181-3       91SE3-N52	1SE1-6	1XE203	39XE400-1	91SE1-3N55
1SE178       1XE205       4SE1       91SE1-3N69         1SE193       1XE206       4SE1-3       91SE1-3N85         1SE197       1XE207       4SE1-6       91SE1-4         1SE198       1XE21       4SE171       91SE14-1GN70         1SE1-H58       1XE2-1       4XE1       91SE14-1GN77         1SE1-N79       1XE214       4XE1-4       91SE14-1GN77         1SE1-T       1XE217       5SE1       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N78         1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE166-12       91SE2-3         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-7       1XE306       5SE2181-3       91SE3-N52	1SE1-6N26	1XE204	39XE96	91SE1-3N62
1SE193       1XE206       4SE1-3       91SE1-3N85         1SE197       1XE207       4SE1-6       91SE1-4         1SE198       1XE21       4SE171       91SE14-1GN70         1SE1-H58       1XE2-1       4XE1       91SE14-1GN77         1SE1-N79       1XE214       4XE1-4       91SE14-1GN77         1SE1-T       1XE217       5SE1       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N78         1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE1-6N26       91SE2         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE26-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3N52         1SE2-6       1XE304       5SE2-1       91SE3-GN67         1SE2-6       1XE304       5SE218       91SE3-N52				
1SE197       1XE207       4SE1-6       91SE1-4         1SE198       1XE21       4SE171       91SE14-1GN70         1SE1-H58       1XE2-1       4XE1       91SE141GN77         1SE1-N79       1XE214       4XE1-4       91SE14-1GN77         1SE1-T       1XE217       5SE1       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N78         1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE1-6N26       91SE2         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE2-3       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3         1SE26       1XE301       5SE2-1       91SE3-GN67         1SE2-6       1XE304       5SE2181-3       91SE3-N52				91SE1-3N85
1SE198       1XE21       4SE171       91SE14-1GN70         1SE1-H58       1XE2-1       4XE1       91SE141GN77         1SE1-N79       1XE214       4XE1-4       91SE14-1GN77         1SE1-T       1XE217       5SE1       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N78         1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE1-6N26       91SE2         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3N52         1SE2-6       1XE301       5SE2-1       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-N52				
1SE1-H58       1XE2-1       4XE1       91SE141GN77         1SE1-N79       1XE214       4XE1-4       91SE14-1GN77         1SE1-T       1XE217       5SE1       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N78         1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE1-6N26       91SE2         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3N52         1SE2-6       1XE301       5SE2-1       91SE3-GN67         1SE2-6       1XE304       5SE218       91SE3-N52	1SE198			
1SE1-N79       1XE214       4XE1-4       91SE14-1GN77         1SE1-T       1XE217       5SE1       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N78         1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE1-6N26       91SE2         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3         1SE26       1XE301       5SE2-1       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-T       1XE306       5SE2181-3       91SE3-N52				
1SE1-T       1XE217       5SE1       91SE14-1N71         1SE2       1XE22       5SE1-12       91SE14-1N78         1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE1-6N26       91SE2         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3         1SE26       1XE301       5SE2-1       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-T       1XE306       5SE2181-3       91SE3-N52				
1SE2       1XE22       5SE1-12       91SE14-1N78         1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE1-6N26       91SE2         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3         1SE26       1XE301       5SE2-1       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-T       1XE306       5SE2181-3       91SE3-N52				
1SE201       1XE2-2       5SE1-3       91SE1-6         1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE1-6N26       91SE2         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3         1SE26       1XE301       5SE2-1       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-T       1XE306       5SE2181-3       91SE3-N52				
1SE202       1XE2-3       5SE1-6       91SE1N72         1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE1-6N26       91SE2         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3         1SE26       1XE301       5SE2-1       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-T       1XE306       5SE2181-3       91SE3-N52				
1SE209       1XE24-2       5SE166-12       91SE1-TG         1SE211       1XE25-2       5SE1-6N26       91SE2         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3         1SE26       1XE301       5SE2-1       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-T       1XE306       5SE2181-3       91SE3-N52				
1SE211       1XE25-2       5SE1-6N26       91SE2         1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3         1SE26       1XE301       5SE2-1       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-T       1XE306       5SE2181-3       91SE3-N52				
1SE216-6       1XE2-6       5SE175-12       91SE2-3         1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3         1SE26       1XE301       5SE2-1       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-T       1XE306       5SE2181-3       91SE3-N52				
1SE227       1XE26-2       5SE183-2       91SE2-6         1SE2-3       1XE27-2       5SE1-N27       91SE3         1SE25-10       1XE3       5SE1-T       91SE3-3         1SE26       1XE301       5SE2-1       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-T       1XE306       5SE2181-3       91SE3-N52				
1SE2-3     1XE27-2     5SE1-N27     91SE3       1SE25-10     1XE3     5SE1-T     91SE3-3       1SE26     1XE301     5SE2-1     91SE3-3N52       1SE2-6     1XE304     5SE218     91SE3-GN67       1SE2-T     1XE306     5SE2181-3     91SE3-N52				
1SE25-10       1XE3       5SE1-T       91SE3-3         1SE26       1XE301       5SE2-1       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-T       1XE306       5SE2181-3       91SE3-N52				
1SE26       1XE301       5SE2-1       91SE3-3N52         1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-T       1XE306       5SE2181-3       91SE3-N52				
1SE2-6       1XE304       5SE218       91SE3-GN67         1SE2-T       1XE306       5SE2181-3       91SE3-N52				
1SE2-T 1XE306 5SE2181-3 91SE3-N52				
10L0 1/L011 33E210-3 915E3-N04				
	IOLO	IALOTT	JOLZ 10-0	J 10LU-1104

### **AWARNING**

### **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.

While we provide application assistance personally, through our literature and the Honeywell website, 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.

