

# Specialized switching solution



**Innovating Motion**

 **JOHNSON  
ELECTRIC**

## Saia microswitch series

high precision switch operating position, small tolerance  
 high operating speed / frequency  
 high electrical ratings and longer life cycles  
 wide range of switching characteristics and terminal options



	<p><b>XC</b>                      Saia Submini Micro switch                      19.9 x 9.5 x 6.4 mm</p> <ul style="list-style-type: none"> <li>■ wide range of forces and variants</li> <li>■ long mechanical and electrical life</li> <li>■ solder, faston and PCB terminals</li> </ul>	<p><b>Rating</b>                      250 VAC, 10 A max.</p>	<p><b>Actuators</b>                      plunger                      mushroom plunger reset                      plain lever                      simulated roller lever / cam                      follower                      roller lever</p>	<p><b>Approvals/Quality</b>                      ENEC                      UL                      cUL                      CSA</p>
	<p><b>X4</b>                      Saia Submini Micro switch                      19.9 x 9.7 x 6.4 mm</p> <ul style="list-style-type: none"> <li>■ thermoplastic housing</li> <li>■ long mechanical and electrical life</li> <li>■ solder, faston and PCB terminals</li> </ul>	<p><b>Rating</b>                      250 VAC, 12 A max.</p>	<p><b>Actuators</b>                      plunger                      plain lever                      cam follower lever                      roller lever</p>	<p><b>Approvals/Quality</b>                      ENEC                      UL                      CSA                      CQC</p>
	<p><b>V4N</b>                      Saia Submini Micro switch                      20 x 10.3 x 6.4 mm</p> <ul style="list-style-type: none"> <li>■ sealed IP67</li> <li>■ solder, faston and PCB terminals                          2.8 mm faston</li> <li>■ pre-wired option</li> </ul>	<p><b>Rating</b>                      250 VAC, 5 A</p>	<p><b>Actuators</b>                      plunger                      plain lever                      roller lever                      simulated roller lever / cam                      follower</p>	<p><b>Approvals/Quality</b>                      ENEC                      UL                      CSA</p>
	<p><b>V4NC</b>                      Saia Submini Micro switch                      20 x 10.3 x 6.4 mm</p> <ul style="list-style-type: none"> <li>■ wide variety of levers</li> <li>■ peg mounting option</li> <li>■ pre-wired option</li> <li>■ sealed IP6K7</li> <li>■ solder, faston and PCB terminals</li> </ul>	<p><b>Rating</b>                      250 VAC, 5 A</p>	<p><b>Actuators</b>                      plunger                      plain lever                      roller lever                      simulated roller lever</p>	<p><b>Approvals/Quality</b>                      none</p>
	<p><b>XG</b>                      Saia Miniature Micro switch                      27.8 x 15.9 x 10.3 mm</p> <ul style="list-style-type: none"> <li>■ wide range of forces and ratings</li> <li>■ long mechanical and electrical life</li> <li>■ solder, faston and PCB terminals</li> </ul>	<p><b>Rating</b>                      250 VAC, 26 A max.</p>	<p><b>Actuators</b>                      plunger                      plain lever                      roller lever                      simulated roller lever</p>	<p><b>Approvals/Quality</b>                      ENEC                      UL                      cUL                      CSA</p>
	<p><b>X3</b>                      Saia Miniature Micro switch                      27.8 x 15.9 x 10.3 mm</p> <ul style="list-style-type: none"> <li>■ 8 mm creepage and clearance distance to the actuator</li> <li>■ long mechanical and electrical life</li> <li>■ solder, faston and PCB terminals</li> </ul>	<p><b>Rating</b>                      250 VAC, 21 A max.</p>	<p><b>Actuators</b>                      plunger                      straight lever                      roller lever                      simulated roller lever</p>	<p><b>Approvals/Quality</b>                      ENEC                      UL                      cUL                      CSA                      CQC</p>
	<p><b>G3</b>                      Saia Miniature Micro switch                      28 x 15.9 x 10 mm</p> <ul style="list-style-type: none"> <li>■ low operating force, high current capacity</li> <li>■ &lt; 15 cN operating force option</li> <li>■ &gt; 3 mm contact gap, changeover mechanism option</li> </ul>	<p><b>Rating</b>                      up to 250 VAC, 18 A</p>	<p><b>Actuators</b>                      plunger                      ramp plunger</p>	<p><b>Approvals/Quality</b>                      ENEC                      UL                      CSA</p>

## Bär manually operated switch series

innovative switch solutions for home appliances

setting industry standards

rocker, push-button and door switches with customized styling

intelligent switch combined with electronic controller



	<p><b>3670</b> Baer Rocker switch various</p> <ul style="list-style-type: none"> <li>■ single pole, on/off</li> <li>■ illuminated/non-illuminated</li> <li>■ snap-in mounting</li> <li>■ faston terminals</li> <li>■ momentary function (optional)</li> <li>■ temp. 100/55°</li> </ul>	<table border="1"> <thead> <tr> <th>Rating</th> </tr> </thead> <tbody> <tr> <td>250 VAC, 6 (2) A</td> </tr> <tr> <td>250 VAC, 12 (2) A</td> </tr> <tr> <td>125 VAC, 12 A</td> </tr> </tbody> </table>	Rating	250 VAC, 6 (2) A	250 VAC, 12 (2) A	125 VAC, 12 A	<table border="1"> <thead> <tr> <th>Actuators</th> </tr> </thead> <tbody> <tr> <td>rocker (different shapes/ colours)</td> </tr> </tbody> </table>	Actuators	rocker (different shapes/ colours)	<table border="1"> <thead> <tr> <th>Approvals/Quality</th> </tr> </thead> <tbody> <tr> <td>ENEC</td> </tr> <tr> <td>cUL</td> </tr> </tbody> </table>	Approvals/Quality	ENEC	cUL			
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	<p><b>3672</b> Baer Rocker switch various</p> <ul style="list-style-type: none"> <li>■ single pole</li> <li>■ on/off</li> <li>■ illuminated/non-illuminated</li> <li>■ snap-in mounting</li> <li>■ solder terminals</li> <li>■ PCB terminals</li> <li>■ faston terminals</li> <li>■ momentary function</li> <li>■ temp. 85/55°</li> </ul>	<table border="1"> <thead> <tr> <th>Rating</th> </tr> </thead> <tbody> <tr> <td>250 VAC, 6 (2) A</td> </tr> <tr> <td>125 VAC, 7.5 A</td> </tr> </tbody> </table>	Rating	250 VAC, 6 (2) A	125 VAC, 7.5 A	<table border="1"> <thead> <tr> <th>Actuators</th> </tr> </thead> <tbody> <tr> <td>rocker (different shapes/ colours)</td> </tr> </tbody> </table>	Actuators	rocker (different shapes/ colours)	<table border="1"> <thead> <tr> <th>Approvals/Quality</th> </tr> </thead> <tbody> <tr> <td>ENEC</td> </tr> <tr> <td>UL</td> </tr> </tbody> </table>	Approvals/Quality	ENEC	UL				
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	<p><b>3600 TIPPMATIC®</b> Baer Auto Shutt off Rocker switch</p> <ul style="list-style-type: none"> <li>■ integral timer function</li> <li>■ different times available</li> <li>■ single pole</li> <li>■ on/off</li> <li>■ illuminated/non-illuminated</li> <li>■ snap-in mounting</li> <li>■ temp. 100/55°</li> </ul>	<table border="1"> <thead> <tr> <th>Rating</th> </tr> </thead> <tbody> <tr> <td>250 VAC, 12 (4) A</td> </tr> <tr> <td>125 VAC, 15 A</td> </tr> </tbody> </table>	Rating	250 VAC, 12 (4) A	125 VAC, 15 A	<table border="1"> <thead> <tr> <th>Actuators</th> </tr> </thead> <tbody> <tr> <td>standard rocker 24.4 x 10.7 mm</td> </tr> </tbody> </table>	Actuators	standard rocker 24.4 x 10.7 mm	<table border="1"> <thead> <tr> <th>Approvals/Quality</th> </tr> </thead> <tbody> <tr> <td>ENEC</td> </tr> <tr> <td>cUL</td> </tr> </tbody> </table>	Approvals/Quality	ENEC	cUL				
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	<p><b>3292</b> Baer Push Button switch 13.5 x 19 mm</p> <ul style="list-style-type: none"> <li>■ single/double pole</li> <li>■ on/off</li> <li>■ faston</li> <li>■ PCB terminals</li> <li>■ extended life (5E4)</li> <li>■ customised mounting</li> <li>■ momentary or latching</li> </ul>	<table border="1"> <thead> <tr> <th>Rating</th> </tr> </thead> <tbody> <tr> <td>250 VAC, 16 (4) A 1E4, T100</td> </tr> <tr> <td>250 VAC, 10 (10) A, 1E4, T100</td> </tr> <tr> <td>250 VAC, 8 (8) A, T125</td> </tr> <tr> <td>125 VAC, 16 A, ¼ hp. T85</td> </tr> </tbody> </table>	Rating	250 VAC, 16 (4) A 1E4, T100	250 VAC, 10 (10) A, 1E4, T100	250 VAC, 8 (8) A, T125	125 VAC, 16 A, ¼ hp. T85	<table border="1"> <thead> <tr> <th>Actuators</th> </tr> </thead> <tbody> <tr> <td>plunger</td> </tr> <tr> <td>square 6 mm</td> </tr> </tbody> </table>	Actuators	plunger	square 6 mm	<table border="1"> <thead> <tr> <th>Approvals/Quality</th> </tr> </thead> <tbody> <tr> <td>ENEC</td> </tr> <tr> <td>cUL</td> </tr> <tr> <td>US</td> </tr> </tbody> </table>	Approvals/Quality	ENEC	cUL	US
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### 3293

Baer Push Button switch  
13.5 x 19 mm

- single/double pole
- on/off
- faston
- PCB terminals
- customised mounting
- momentary or latching
- $\mu$ -gap

Rating	Actuators	Approvals/Quality
250 VAC, 8 (8) A, 1E4, T100	plunger	ENEC
250 VAC, 10 (4) A, 1E4, T100	square 6 mm	



### 3200

Baer Push Button switch  
12.5 x 12.5 x 19.5 mm

- illumination optional
- single pole
- change-over
- PCB terminals
- customised mounting
- momentary or latching
- $\mu$ -gap

Rating	Actuators	Approvals/Quality
12 VDC, 2 A	square 10.4 mm	none



### 1427

Baer Momentary switch  
various

- single pole
- faston
- snap-in mounting or centre-fixing

Rating	Actuators	Approvals/Quality
250 VAC, 0.2 [0.2] A 1E5	plunger	ENEC
250 VAC, 0.25 A		cUL



### 1430

Baer Momentary switch  
various

- single pole
- faston
- snap-in mounting

Rating	Actuators	Approvals/Quality
250 VAC, 0.2 [0.2] A 5E4	lever	ENEC



### 1429

Baer Momentary switch  
various

- single pole
- snap-action function
- faston
- snap-in mounting
- type of protection according to IEC 60079-15:1987

Rating	Actuators	Approvals/Quality
250 VAC, 0.2 [0.2] A 2E5	plunger	ENEC



### XKA

Baer Momentary switch  
28 x 20 x 15 mm

- long overtravel
- snap-action CO
- snap-in mounting
- type of protection according to IEC 60079-15:1987

Rating	Actuators	Approvals/Quality
250 VAC, 1 (1) A 5E4, T85	plain lever	ENEC
	round lever	UL
		CSA



### 4022

Baer Rotary switch  
30 x 14 x 15.3

- single pole with on/off or step function
- double pole with on/off function
- solder, faston and PCB terminals
- high temp. 100°

Rating	Actuators	Approvals/Quality
250 VAC, 12 (2) A	cam	ENEC
125 VAC, 10 A	square access hole 3.25 mm <sup>2</sup>	UL
		CSA

## Burgess switch series

solid products fulfill high requirements in robustness  
largest variety in switching technologies  
expert in innovative switching solutions  
strong in industrial automation



	<p><b>F1</b> Burgess Ultraminiature Micro switch 16 x 6 x 6.5 mm</p> <ul style="list-style-type: none"> <li>■ small size</li> <li>■ high current</li> <li>■ long mechanical life</li> <li>■ PCB mounting</li> </ul>	<p><b>Rating</b> 250 VAC, 5 A</p>	<p><b>Actuators</b> plunger plain lever simulated roller lever / cam follower</p>	<p><b>Approvals/Quality</b> UL CSA</p>
	<p><b>F4</b> Burgess Ultraminiature Micro switch 12.8 x 10 x 5 mm</p> <ul style="list-style-type: none"> <li>■ small size</li> <li>■ long mechanical and electrical life</li> <li>■ solder</li> <li>■ PCB terminals</li> </ul>	<p><b>Rating</b> 250 VAC, 5 A</p>	<p><b>Actuators</b> plunger plain lever simulated roller lever / cam follower</p>	<p><b>Approvals/Quality</b> UL CSA</p>
	<p><b>F5</b> Burgess Ultraminiature Micro switch 12.8 x 7 x 5 mm</p> <ul style="list-style-type: none"> <li>■ small size</li> <li>■ long mechanical and electrical life</li> <li>■ PCB mounting</li> </ul>	<p><b>Rating</b> 250 VAC, 5 A</p>	<p><b>Actuators</b> plunger plain lever simulated roller lever / cam follower</p>	<p><b>Approvals/Quality</b> UL CSA</p>
	<p><b>F1NS</b> Burgess Ultraminiature Micro switch 16 x 6.5 x 6 mm</p> <ul style="list-style-type: none"> <li>■ small size</li> <li>■ low current</li> <li>■ long mechanical life</li> <li>■ PCB mounting</li> <li>■ sealed IP54 (option)</li> </ul>	<p><b>Rating</b> up to 250 VAC, 1 A</p>	<p><b>Actuators</b> plunger plain lever simulated roller lever / cam follower</p>	<p><b>Approvals/Quality</b> none</p>
	<p><b>F6</b> Burgess Ultraminiature Micro switch 14.7 x 9 x 5.4 mm</p> <ul style="list-style-type: none"> <li>■ small size</li> <li>■ sealed IP6K7</li> <li>■ PCB mounting</li> </ul>	<p><b>Rating</b> 12-30 VDC, 5-300 mA</p>	<p><b>Actuators</b> plunger plain lever</p>	<p><b>Approvals/Quality</b> none</p>
	<p><b>FK4</b> Burgess Ultraminiature Micro switch 18 x 8 x 5 mm</p> <ul style="list-style-type: none"> <li>■ double break switching</li> <li>■ long mechanical and electrical life</li> <li>■ solder, faston 2 mm and PCB mounting</li> <li>■ snap-action</li> </ul>	<p><b>Rating</b> 250 VAC, 5 A</p>	<p><b>Actuators</b> plunger plain lever simulated roller lever / cam follower</p>	<p><b>Approvals/Quality</b> UL CSA</p>
	<p><b>V4L</b> Burgess Submini Micro switch 20 x 11 x 6.4 mm</p> <ul style="list-style-type: none"> <li>■ long overtravel of 2.2 mm minimum</li> <li>■ sealed to IP6K7 option</li> <li>■ pre-wired option</li> <li>■ solder terminals</li> </ul>	<p><b>Rating</b> 250 VAC, 5 A</p>	<p><b>Actuators</b> plunger plain lever ice break lever</p>	<p><b>Approvals/Quality</b> ENEC UL CSA</p>
	<p><b>V3S</b> Burgess Sealed Miniature Micro switch 32 x 24 x 10 mm</p> <ul style="list-style-type: none"> <li>■ sealed IP67</li> <li>■ flying leads</li> <li>■ robust construction</li> </ul>	<p><b>Rating</b> 250 VAC, 5 A</p>	<p><b>Actuators</b> plunger plain lever roller lever</p>	<p><b>Approvals/Quality</b> ENEC UL CSA</p>

	<p><b>PN4</b> Burgess Standard Micro switch 49 x 22 17.5 mm</p> <ul style="list-style-type: none"> <li>■ precision switching</li> <li>■ long mechanical life</li> <li>■ screw terminals</li> </ul>	<p><b>Rating</b> 250 VAC, 15 A</p>	<p><b>Actuators</b> plunger plain lever roller lever</p>	<p><b>Approvals/Quality</b> UL CSA</p>
	<p><b>3BR</b> Burgess Sealed Standard Micro switch 53.1 x 20.6 x 30.8 mm</p> <ul style="list-style-type: none"> <li>■ choice of IP54 or IP67 sealed versions</li> <li>■ precise movements and exceptional repeat accuracy</li> <li>■ flying lead version available</li> <li>■ long overtravel</li> </ul>	<p><b>Rating</b> 250 VAC, 10 A max.</p>	<p><b>Actuators</b> plunger</p>	<p><b>Approvals/Quality</b> UL CSA</p>
	<p><b>K5</b> Burgess Standard Double Break Switch 41 x 19 x 15.5 mm</p> <ul style="list-style-type: none"> <li>■ double break switching</li> <li>■ long mechanical life</li> <li>■ high electrical rating</li> <li>■ faston terminals</li> </ul>	<p><b>Rating</b> 250 VAC, 16 A</p>	<p><b>Actuators</b> plunger plain lever roller lever ramp plunger</p>	<p><b>Approvals/Quality</b> UL CSA</p>
	<p><b>V9N</b> Burgess Sealed Miniature Limit switch 42 x 24.5 x 15.5 mm</p> <ul style="list-style-type: none"> <li>■ sealed IP67</li> <li>■ metal housed</li> <li>■ screw terminals or flying leads</li> </ul>	<p><b>Rating</b> 250 VAC, 10 A max.</p>	<p><b>Actuators</b> plunger plain lever roller lever reverse action lever</p>	<p><b>Approvals/Quality</b> UL CSA</p>
	<p><b>4BR</b> Burgess Sealed Limit switch 53.1 x 20.6 x 29.2 mm</p> <ul style="list-style-type: none"> <li>■ choice of IP54 or IP67 sealed versions</li> <li>■ precise movements and exceptional repeat accuracy</li> <li>■ robust metal housing</li> <li>■ flying lead version available</li> <li>■ long overtravel</li> </ul>	<p><b>Rating</b> 250 VAC, 15 A max.</p>	<p><b>Actuators</b> plunger</p>	<p><b>Approvals/Quality</b> UL CSA</p>
	<p><b>BVM3</b> Burgess Positive Action Momentary Switch 28 x 16 x 10.5 mm</p> <ul style="list-style-type: none"> <li>■ positive-action (forced break) contacts</li> <li>■ &gt; 3 mm contact gap at full travel</li> <li>■ internationally recognized V3 housing</li> <li>■ faston terminals</li> </ul>	<p><b>Rating</b> 250 VAC, 10 A</p>	<p><b>Actuators</b> plunger plain lever roller lever</p>	<p><b>Approvals/Quality</b> ENEC cUL CSA</p>
	<p><b>KB5</b> Burgess Positive Action Double Break Momentary Switch 41 x 19.5 x 15.5 mm</p> <ul style="list-style-type: none"> <li>■ positive-action forced double break switching</li> <li>■ &gt; 3 mm contact gap at full travel</li> <li>■ high electrical rating</li> <li>■ faston terminals</li> </ul>	<p><b>Rating</b> up to 250 VAC, 25 A</p>	<p><b>Actuators</b> plunger plain lever roller lever</p>	<p><b>Approvals/Quality</b> UL CSA</p>



### XP

Burgess Double Break Momentary Switch  
30 x 32 x 12 mm

- double break switching
- positive-action force break (option)
- > 3 mm contact gap at full travel (option)
- faston terminals

Rating	Actuators	Approvals/Quality
400 VAC, 16 A	plain plunger mushroom plunger reset plunger with external spring (for increased reset security)	ENEC UL CSA



### XT

Burgess Double Break Momentary Switch  
30 x 32 x 12 mm

- 8 mm contact gap, creepage and clearance distances
- double break contacts

Rating	Actuators	Approvals/Quality
400 VAC, 16.5 A max.	shrouded plunger optional key plain plunger	ENEC UL cUL CSA

**Johnson Electric Group**

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