## Safety Limit Switches

<table>
<thead>
<tr>
<th>Product Family</th>
<th>SMN4</th>
<th>SND4</th>
<th>SN4</th>
<th>SND2</th>
</tr>
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<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image1" alt="Product Picture" /></td>
<td><img src="image2" alt="Product Picture" /></td>
<td><img src="image3" alt="Product Picture" /></td>
<td><img src="image4" alt="Product Picture" /></td>
</tr>
<tr>
<td><strong>Body Dimensions (mm) LxWxH</strong></td>
<td>30 x 30 x 45</td>
<td>30 x 31 x 62</td>
<td>30.5 x 32 x 62</td>
<td>50.5 x 32.5 x 50.5</td>
</tr>
<tr>
<td><strong>Enclosure Material</strong></td>
<td>Fiber-reinforced plastic</td>
<td>Fiber-reinforced plastic</td>
<td>Zinc alloy</td>
<td>Fiber-reinforced plastic</td>
</tr>
<tr>
<td><strong>Characteristics</strong></td>
<td>- Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG11</td>
<td>- Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG13.5, 1/2NP2, M20</td>
<td>- Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20</td>
<td>- EN50047 compatible - Positive opening contact - Galvanically separated contacts - Cable entries (2 opening): M16, PG13.5, 1/2NP2, M20</td>
</tr>
<tr>
<td><strong>Contact Configuration</strong></td>
<td>1NO/1NC, 2NO, 2NC</td>
<td>1NO/2NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC</td>
<td>1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC</td>
<td>1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC</td>
</tr>
<tr>
<td><strong>IP/NEMA Ratings</strong></td>
<td>IP65 /NEMA 4, 4X, 6</td>
<td>IP67 / NEMA 4, 4X, 6</td>
<td>IP67 / NEMA 4, 6</td>
<td>IP65 / NEMA 4, 4X</td>
</tr>
<tr>
<td><strong>Contact Ratings</strong></td>
<td>A600/Q300</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
</tr>
<tr>
<td><strong>Actuator</strong></td>
<td>20+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
<td>20+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
<td>10+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
<td>20+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
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<tr>
<td><strong>Certificates</strong></td>
<td><img src="image5" alt="Certificates" /></td>
<td><img src="image6" alt="Certificates" /></td>
<td><img src="image7" alt="Certificates" /></td>
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## Additional Information

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<tr>
<th>Product Family</th>
<th>SN2</th>
<th>SND6</th>
<th>SN61</th>
<th>SN63</th>
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<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image9" alt="Product Picture" /></td>
<td><img src="image10" alt="Product Picture" /></td>
<td><img src="image11" alt="Product Picture" /></td>
<td><img src="image12" alt="Product Picture" /></td>
</tr>
<tr>
<td><strong>Body Dimensions (mm) LxWxH</strong></td>
<td>52 x 33 x 64</td>
<td>40.5 x 40 x 74</td>
<td>40 x 42 x 78</td>
<td>57 x 36 x 70</td>
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<tr>
<td><strong>Enclosure Material</strong></td>
<td>Zinc alloy</td>
<td>Fiber-reinforced plastic</td>
<td>Zinc alloy</td>
<td>Zinc alloy</td>
</tr>
<tr>
<td><strong>Characteristics</strong></td>
<td>- EN50047 compatible - 2 or 3 conduit opens - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20, 1/2NP2</td>
<td>- Conform to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20, 1/2NP2</td>
<td>- Conform to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20, 1/2NP2</td>
<td>- Compatible to EN50041 - 3 conduit opens - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20, 1/2NP2</td>
</tr>
<tr>
<td><strong>Contact Configuration</strong></td>
<td>1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC</td>
<td>1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC</td>
<td>1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC</td>
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<tr>
<td><strong>IP/NEMA Ratings</strong></td>
<td>IP67 /NEMA 4, 6</td>
<td>IP67 / NEMA 4, 4X, 6</td>
<td>IP67 / NEMA 4, 6</td>
<td>IP67 / NEMA 4, 6</td>
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<tr>
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<td>A600/Q300</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
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<tr>
<td><strong>Actuator</strong></td>
<td>20+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
<td>20+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
<td>10+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
<td>20+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
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<tr>
<td><strong>Certificates</strong></td>
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<td><img src="image14" alt="Certificates" /></td>
<td><img src="image15" alt="Certificates" /></td>
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<tr>
<td>Product Family</td>
<td>HMS</td>
<td>HLS</td>
<td>HES</td>
<td>SN62</td>
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<td>![HLS Image]</td>
<td>![HES Image]</td>
<td>![SN62 Image]</td>
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<td><strong>Body Dimensions (mm) LxWxH</strong></td>
<td>42 x 44.6 x 80</td>
<td>42 x 44.6 x 102.5</td>
<td>69 x 53.5 x 155.5</td>
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<tr>
<td><strong>Enclosure Material</strong></td>
<td>Zinc alloy</td>
<td>Zinc alloy</td>
<td>Aluminum alloy</td>
<td>Aluminum alloy</td>
</tr>
<tr>
<td><strong>Characteristics</strong></td>
<td>- NEMA style heavy duty - Plug-in style - Cable entry: M20, 1/2NPT</td>
<td>- NEMA style heavy duty - Plug-in style - Cable entry: M20, 1/2NPT</td>
<td>- NEMA style heavy duty - Explosion-proof - Cable entry: M20, 1/2NPT, 3/4NPT</td>
<td>- Compatible to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, 1/2NPT, M20</td>
</tr>
<tr>
<td><strong>Contact Configuration</strong></td>
<td>1NO/1NC, 2NO/2NC</td>
<td>1NO/1NC, 2NO/2NC</td>
<td>1NO/1NC, 2NO/2NC</td>
<td>1NO/1NC, 2NO/2NC</td>
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<td><strong>IP/NEMA Ratings</strong></td>
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<td>IP67 /NEMA 4, 6</td>
<td>IP67 /NEMA 4, 6, 7, 9</td>
<td>IP67 /NEMA 4, 6</td>
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<td><strong>Contact Ratings</strong></td>
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<td>A600/Q300</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
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<tr>
<td><strong>Actuator</strong></td>
<td>20+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
<td>20+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
<td>20+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
<td>20+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
</tr>
<tr>
<td><strong>Certificates</strong></td>
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<tr>
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<tr>
<td><strong>Product Picture</strong></td>
<td>![SN31 Image]</td>
<td>![SN32 Image]</td>
<td>![SM31 Image]</td>
<td>![SM32 Image]</td>
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<tr>
<td><strong>Body Dimensions (mm) LxWxH</strong></td>
<td>30 x 16 x 50</td>
<td>40 x 16 x 50</td>
<td>30 x 16 x 50</td>
<td>30 x 16 x 50</td>
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<tr>
<td><strong>Enclosure Material</strong></td>
<td>Zinc alloy or fiber reinforced plastics</td>
<td>Zinc alloy or fiber reinforced plastics</td>
<td>Zinc alloy or fiber reinforced plastics</td>
<td>Zinc alloy or fiber reinforced plastics</td>
</tr>
<tr>
<td><strong>Characteristics</strong></td>
<td>- Epoxy potted - Positive opening contact - Galvanically separated contacts - Mounting spacing: 20mm</td>
<td>- Epoxy potted - Positive opening contact - Galvanically separated contacts - Mounting spacing: 25mm</td>
<td>- Epoxy potted - Positive opening contact - Galvanically separated contacts - Mounting spacing: 20mm</td>
<td>- Epoxy potted - Positive opening contact - Galvanically separated contacts - Mounting spacing: 25mm</td>
</tr>
<tr>
<td><strong>Contact Configuration</strong></td>
<td>1NO/1NC (snap or slow action)</td>
<td>1NO/1NC (snap or slow action)</td>
<td>1NO/1NC, 2NO, 2NC, 2NO/1NC (snap or slow action)</td>
<td>1NO/1NC, 2NO, 2NC, 2NO/1NC (snap or slow action)</td>
</tr>
<tr>
<td><strong>IP/NEMA Ratings</strong></td>
<td>IP67 /NEMA 4, 6</td>
<td>IP67 /NEMA 4, 6</td>
<td>IP67 /NEMA 4, 6</td>
<td>IP67 /NEMA 4, 6</td>
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<tr>
<td><strong>Contact Ratings</strong></td>
<td>A300/Q300</td>
<td>A300/Q300</td>
<td>B300/R 300</td>
<td>B300/R 300</td>
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<tr>
<td><strong>Actuator</strong></td>
<td>10+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
<td>10+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
<td>10+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
<td>10+ actuator heads including plunger, roller, roller lever, rod, spring wire etc</td>
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<td><strong>Certificates</strong></td>
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<tr>
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<td>SNH</td>
<td>SN9</td>
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<tr>
<td>Product Picture</td>
<td><img src="image1" alt="Product Picture" /></td>
<td><img src="image2" alt="Product Picture" /></td>
<td><img src="image3" alt="Product Picture" /></td>
<td><img src="image4" alt="Product Picture" /></td>
</tr>
<tr>
<td>Body Dimensions (mm) LxWxH</td>
<td>77 x 35.6 x 81</td>
<td>85 x 53 x 85</td>
<td>86 x 25.5 x 44.6</td>
<td>86 x 25.5 x 44.6</td>
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<tr>
<td>Enclosure Material</td>
<td>Zinc alloy</td>
<td>Zinc alloy</td>
<td>Aluminum alloy</td>
<td>Aluminum alloy</td>
</tr>
</tbody>
</table>
| Characteristics | - Positive opening contact  
- Galvanically separated contacts  
- Cable entry: M20, 1/2NPT PG13.5 | - Positive opening contact  
- Galvanically separated contacts  
- Cable entry: 1/2NPT, M20 PG13.5 | - Large wiring enclosure  
- High repeatability  
- Large breaking power  
- Cable entry: 1/2NPT, M20 | - Large wiring enclosure  
- High repeatability  
- Large breaking power  
- Cable entry: 1/2NPT, M20 |
| Contact Configuration | 4NC | 2NO/2NC,4NO,4NC | SPDT | SPDT |
| IP/NEMA Ratings | IP 66 / NEMA 4 | IP 54 / NEMA 5 | IP 65 / NEMA 4 | IP 65 / NEMA 4 |
| Actuator | double-cross rods | actuator heads including: roller lever, adj. roller lever, rod, double-cross rods | 10+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc | 10+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc |
| Certificates | ![Certificate](image5) | ![Certificate](image6) | ![Certificate](image7) | ![Certificate](image8) |

<table>
<thead>
<tr>
<th>Product Family</th>
<th>SN1</th>
<th>SN1-H</th>
<th>SN7</th>
<th>SN7-W</th>
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<tbody>
<tr>
<td>Product Picture</td>
<td><img src="image9" alt="Product Picture" /></td>
<td><img src="image10" alt="Product Picture" /></td>
<td><img src="image11" alt="Product Picture" /></td>
<td><img src="image12" alt="Product Picture" /></td>
</tr>
<tr>
<td>Body Dimensions (mm) LxWxH</td>
<td>44.5 x 18 x 32.4</td>
<td>44.5 x 18 x 32.4</td>
<td>54 x 21.4 x 43</td>
<td>54 x 21.4 x 43</td>
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<tr>
<td>Enclosure Material</td>
<td>Zinc alloy</td>
<td>Zinc alloy</td>
<td>Plastic (94-V0)</td>
<td>Plastic (94-V0)</td>
</tr>
</tbody>
</table>
| Characteristics | - Compact size  
- High sealability  
- High sensitivity  
- Build-in cable gland  
- Cable gland fit 6-9mm dia. cable wires | - Compact size  
- High sealability  
- High sensitivity  
- M12 quick connector | - Compact size  
- Build-in cable gland  
- Fit 8.5 -10.5mm cables | - Compact size  
- Build-in cable gland  
- Fit 8.5 -10.5mm cables |
| Contact Configuration | SPDT | SPDT | SPDT | SPDT |
| IP/NEMA Ratings | IP 67 / NEMA 4,6 | IP 67 / NEMA 4,6 | IP 64 | IP 67 / NEMA 4,6 |
| Contact Ratings | 5A 250VAC / 5A 30VDC | 5A 250VAC / 5A 30VDC | 10A 250VAC | 10A 250VAC |
| Actuator | 10+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc | 10+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc | 10+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc | 10+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc |
| Certificates | ![Certificate](image13) | ![Certificate](image14) | ![Certificate](image15) | ![Certificate](image16) |
## Safety Switches

<table>
<thead>
<tr>
<th>Product Family</th>
<th>SMN4191</th>
<th>SND4191</th>
<th>SND2191</th>
<th>SND-K</th>
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<tr>
<td><strong>Key Interlock Switches</strong></td>
<td>Key Interlock Switches</td>
<td>Key Interlock Switches</td>
<td>Key Interlock Switches</td>
<td>Key</td>
</tr>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>Body Dimensions (mm) LxWxH</strong></td>
<td>30 x 30 x 45</td>
<td>30 x 31 x 62</td>
<td>50.5 x 32.5 x 50.5</td>
<td></td>
</tr>
<tr>
<td><strong>Enclosure Material</strong></td>
<td>Fiber-reinforced plastic</td>
<td>Fiber-reinforced plastic</td>
<td>Stainless steel</td>
<td>Stainless steel</td>
</tr>
<tr>
<td><strong>Characteristics</strong></td>
<td>- Conform to EN50047 - Miniature size - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG11</td>
<td>- Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG13.5, 1/2NPT, M20</td>
<td>- Conform to EN50047 compatible - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT</td>
<td>- Apply to SND2,5,SN4</td>
</tr>
<tr>
<td><strong>Contact Configuration</strong></td>
<td>1NO/1NC, 2NC/1NO</td>
<td>1NO/1NC, 2NC/1NO</td>
<td>1NO/1NC, 2NC/1NO</td>
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<tr>
<td><strong>IP/NEMA Ratings</strong></td>
<td>IP 67 / NEMA 4,4X,6</td>
<td>IP 67 / NEMA 4,4X</td>
<td>IP65 / NEMA 4,4X</td>
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<tr>
<td><strong>Contact Ratings</strong></td>
<td>A600/Q300</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
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</tr>
<tr>
<td><strong>Actuator</strong></td>
<td>Three actuating keys available</td>
<td>Three actuating keys available</td>
<td>Three actuating keys available</td>
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</tr>
<tr>
<td><strong>Certificates</strong></td>
<td>- Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: M16, PG11</td>
<td>- Conform to EN50047 compatible - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT</td>
<td>- EN50047 compatible - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, M20 1/2NPT</td>
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<tr>
<th>Product Family</th>
<th>SS6191/SSD6191</th>
<th>SN6191</th>
<th>SN6-K1</th>
<th>SN6-K2</th>
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<tbody>
<tr>
<td><strong>Solenoid Key Interlock</strong></td>
<td>Key Interlock Switches</td>
<td>Key</td>
<td>Key</td>
<td>Key</td>
</tr>
<tr>
<td><strong>Product Picture</strong></td>
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<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
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<tr>
<td><strong>Body Dimensions (mm) LxWxH</strong></td>
<td>40 x 46 x 194</td>
<td>40 x 42 x 78</td>
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<td>SN6-K3</td>
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<td><strong>Enclosure Material</strong></td>
<td>Fiber-reinforced plastic</td>
<td>Zinc alloy</td>
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<td>SN6-K4</td>
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<tr>
<td><strong>Characteristics</strong></td>
<td>- Solenoid: 24V, 120 or 240V - Positive opening contact - Power-to-lock or power-to-unlock - Optional indicator light - Cable entry: M20x1.5 (3)</td>
<td>- Conform to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, 1/2NPT, M20</td>
<td>- Apply to SN6,SSD6191</td>
<td>- Apply to SN6,SSD6191</td>
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<tr>
<td><strong>Contact Configuration</strong></td>
<td>2NO/2NC, 3NC/1NO</td>
<td>1NO/1NC, 2NC/1NO</td>
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<tr>
<td><strong>IP/NEMA Ratings</strong></td>
<td>IP 67 / NEMA 4,4X,6</td>
<td>IP 67 / NEMA 4,4X</td>
<td>Stainless steel</td>
<td>Stainless steel</td>
</tr>
<tr>
<td><strong>Contact Ratings</strong></td>
<td>A600/Q300</td>
<td>A600/Q300</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Actuator</strong></td>
<td>Four actuating keys available</td>
<td>Four actuating keys available</td>
<td></td>
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</tr>
<tr>
<td><strong>Certificates</strong></td>
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## Safety Switches

### Product Family

| Product Family | SND4181  
Rotary Hinged | SND4182  
Hinged Safety | SND4-R  
With Reset | SN4-R  
With Reset |
<table>
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<tr>
<td><strong>Body Dimensions (mm) LxWxH</strong></td>
<td>30 x 31 x 62</td>
<td>30 x 31 x 62</td>
<td>30 x 31 x 62</td>
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<tr>
<td><strong>Enclosure Material</strong></td>
<td>Fiber-reinforced plastic</td>
<td>Fiber-reinforced plastic</td>
<td>Fiber-reinforced plastic</td>
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</tbody>
</table>
| **Characteristics** | - Conform to EN50047  
- Positive opening contact  
- Galvanically separated contacts  
- Cable entry: M16, PG13.5, 1/2NPT, M20 | - Conform to EN50047  
- Positive opening contact  
- Galvanically separated contacts  
- Cable entry: PG13.5, M20 1/2NPT | - Compatible to EN50047  
- Positive opening contact  
- Galvanically separated contacts  
- Cable entry: M16, PG13.5, 1/2NPT, M20 | - Conform to EN50041  
- Positive opening contact  
- Galvanically separated contacts  
- Cable entry: PG13.5, M20 1/2NPT |
| **Contact Configuration** | 1NO/1NC, 2NO/2NC, 3NO/3NC, 2NO/1NC, 2NC/1NO | 1NO/1NC, 2NO/2NC, 3NO/3NC, 2NO/1NC, 2NC/1NO | 3NO/3NC, 2NO/2NC, 3NO/3NC, 2NO/1NC, 2NC/1NO | 1NO/1NC, 2NO/2NC, 3NO/3NC, 2NO/1NC, 2NC/1NO, 2NO/2NC |
| **IP/NEMA Ratings** | IP67 / NEMA 4, 4X, 6 | IP67 / NEMA 4, 4X, 6 | IP67 / NEMA 4, 4X, 6 | IP67 / NEMA 4, 6 |
| **Contact Ratings** | A600/Q300 | A600/Q300 | A600/Q300 | A600/Q300 |
| **Actuator** | 20+ actuator heads including: 
plunger, roller, roller lever, rod, spring wire etc | 20+ actuator heads including: 
plunger, roller, roller lever, rod, spring wire etc | 20+ actuator heads including: 
plunger, roller, roller lever, rod, spring wire etc | 20+ actuator heads including: 
plunger, roller, roller lever, rod, spring wire etc |
| **Certificates** | | | | |

### Product Family

| Product Family | SND6-R  
With Reset | SN6-R  
With Reset | SND2-R  
With Reset | SN2-R  
With Reset |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Body Dimensions (mm) LxWxH</strong></td>
<td>40.5 x 40 x 74</td>
<td>40 x 42 x 78</td>
<td>50.5 x 32.5 x 50.5</td>
</tr>
<tr>
<td><strong>Enclosure Material</strong></td>
<td>Fiber-reinforced plastic</td>
<td>Zinc alloy</td>
<td>Fiber-reinforced plastic</td>
</tr>
</tbody>
</table>
| **Characteristics** | - Conform to EN50041  
- Positive opening contact  
- Galvanically separated contacts  
- Cable entry: M16, PG13.5, 1/2NPT | - Conform to EN50047  
- Positive opening contact  
- Galvanically separated contacts  
- Cable entry: PG13.5, M20 1/2NPT | - Compatible to EN50047  
- Positive opening contact  
- Galvanically separated contacts  
- Cable entry: M16, PG13.5, 1/2NPT, M20 | - Compatible to EN50047  
- Positive opening contact  
- Galvanically separated contacts  
- Cable entry: PG13.5, M20 1/2NPT |
| **Contact Configuration** | 1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO | 1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO | 1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO | 1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO, 2NC/2NC |
| **IP/NEMA Ratings** | IP67 / NEMA 4, 6 | IP67 / NEMA 4, 6 | IP65 / NEMA 4, 4X | IP67 / NEMA 4, 6 |
| **Contact Ratings** | A600/Q300 | A600/Q300 | A600/Q300 | A600/Q300 |
| **Actuator** | actuator heads including: 
plunger, roller, roller lever | actuator heads including: 
plunger, roller, roller lever | 20+ actuator heads including: 
plunger, roller, roller lever, rod, spring wire etc | 20+ actuator heads including: 
plunger, roller, roller lever, rod, spring wire etc |
| **Certificates** | | | | |
# Cable Pull Switches

<table>
<thead>
<tr>
<th>Product Family</th>
<th>SN4170/SND4170</th>
<th>SN6170/SND6170</th>
<th>SN2170</th>
<th>SN6271</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Picture</td>
<td><a href="#">Image</a></td>
<td><a href="#">Image</a></td>
<td><a href="#">Image</a></td>
<td><a href="#">Image</a></td>
</tr>
<tr>
<td>Actuating force</td>
<td>20N, 80N</td>
<td>20N</td>
<td>150N</td>
<td></td>
</tr>
<tr>
<td>Body Dimensions (mm) LxWxH</td>
<td>30 x 31 x 62</td>
<td>40 x 42 x 78</td>
<td>52 x 33 x 64</td>
<td>40 x 40.4 x 69.3</td>
</tr>
<tr>
<td>Enclosure Material</td>
<td>Fiber-reinforced plastic or zinc alloy</td>
<td>Fiber-reinforced plastic or zinc alloy</td>
<td>Zinc alloy</td>
<td>Aluminum alloy</td>
</tr>
<tr>
<td>Characteristics</td>
<td>- Max span 5 meters (16 ft) - One-way or two-way actuation - Pull-on/pull-off option - Lock and reseatable option - Cable entry: M20, PG13.5, 1/2NPT</td>
<td>- Max span 15 meters (49 ft) - One-way or two-way actuation - Lock and reseatable option - Cable entry: PG13.5, 1/2NPT, M20</td>
<td>- Max span 5 meters (16 ft) - Conform to EN50047 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, 1/2NPT (x3)</td>
<td>- Max span 30 meters (98 ft) - Compatible to EN50041 - Positive opening contact - Galvanically separated contacts - Cable entry: PG13.5, 1/2NPT, M20</td>
</tr>
<tr>
<td>Contact Configuration</td>
<td>1NO/1NC, 2NO/2NC, 3NO/3NC, 2NO/1NC, 2NC/1NO</td>
<td>1NO/1NC, 2NO/2NC, 3NO/3NC, 2NO/1NC, 2NC/1NO</td>
<td>1NO/1NO, 2NO/2NC, 3NO/3NC, 2NO/1NC, 2NC/1NO</td>
<td>1NO/1NO, 2NO/2NC, 2NC/1NO, 2NO/1NC, 2NC/1NO</td>
</tr>
<tr>
<td>IP/NEMA Ratings</td>
<td>IP67 / NEMA 4, 4X, 6</td>
<td>IP67 / NEMA 4, 6</td>
<td>IP67 / NEMA 4, 6</td>
<td>IP67 / NEMA 4, 6</td>
</tr>
<tr>
<td>Contact Ratings</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
</tr>
<tr>
<td>Actuator</td>
<td></td>
<td>actuator can be on the left or right side.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Certificates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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## Product Family

<table>
<thead>
<tr>
<th>Product Family</th>
<th>CP7170</th>
<th>CP8171</th>
<th>HLS-1A-70</th>
<th>HES-1A-70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Picture</td>
<td><a href="#">Image</a></td>
<td><a href="#">Image</a></td>
<td><a href="#">Image</a></td>
<td><a href="#">Image</a></td>
</tr>
<tr>
<td>Body Dimensions (mm) LxWxH</td>
<td>72 x 61 x 120</td>
<td>100 x 61 x 120</td>
<td>42 x 44.6 x 102.5</td>
<td>69 x 53.5 x 155.5</td>
</tr>
<tr>
<td>Enclosure Material</td>
<td>Aluminum alloy</td>
<td>Aluminum alloy</td>
<td>Zinc alloy</td>
<td>Aluminum alloy</td>
</tr>
<tr>
<td>Characteristics</td>
<td>- Max span 80 meter (262 ft) - Options: E-stop, indicator - Positive opening contact - Galvanically separated contacts</td>
<td>- Max span 80 meter (262 ft) - Options: E-stop, indicator - Positive opening contact - Galvanically separated contacts</td>
<td>- Max span 30 meter (98ft) - Heavy duty body</td>
<td>- Max span 30 meter (98 ft) - Heavy duty body - Explosion-proof</td>
</tr>
<tr>
<td>Contact Configuration</td>
<td>1NO/1NC, 2NO/2NC, 3NO/3NC, 2NO/1NC, 2NC/1NO</td>
<td>1NO/1NC, 2NO/2NC, 3NO/3NC, 2NO/1NC, 2NC/1NO</td>
<td>1NO/1NO, 2NO/2NC</td>
<td>1NO/1NO, 2NO/2NC</td>
</tr>
<tr>
<td>IP/NEMA Ratings</td>
<td>IP66 / NEMA 4</td>
<td>IP66 / NEMA 4</td>
<td>IP67 / NEMA 4, 4, 6</td>
<td>IP67 / NEMA 4, 4, 6, 7, 9</td>
</tr>
<tr>
<td>Contact Ratings</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
</tr>
<tr>
<td>Actuator</td>
<td>actuator can be on left or right or both direction</td>
<td>actuator can be on the left or right side.</td>
<td>actuator can be on the left or right side.</td>
<td></td>
</tr>
<tr>
<td>Certificates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Limit Switches and Neutral Switch

<table>
<thead>
<tr>
<th>Product Family</th>
<th>AZ8 Limit Switches</th>
<th>SMN5 Limit Switches</th>
<th>SN5 Limit Switches</th>
<th>S-6098 Limit Switches</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Dimensions (mm) LxWxH</td>
<td>28 x 25 x 64</td>
<td>33 x 33 x 60.5</td>
<td>33 x 34 x 60.6</td>
<td>80 x 140 x 40</td>
</tr>
<tr>
<td>Enclosure Material</td>
<td>Zinc cast base/plastic cover</td>
<td>Zinc alloy</td>
<td>Zinc alloy</td>
<td>Galvanized steel enclosure</td>
</tr>
<tr>
<td>Characteristics</td>
<td>- Compact size</td>
<td>- All metal construction</td>
<td>- Pre-molded flexible cable</td>
<td>- Self-cleaning contacts</td>
</tr>
<tr>
<td></td>
<td>- Premolded flexible cable gland</td>
<td>- Galvanically separated contacts</td>
<td>gland for fast and simple</td>
<td>- Automatic safety tripping</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Cable entry: M16, PG11</td>
<td>wiring termination</td>
<td>mechanism</td>
</tr>
<tr>
<td>Contact Configuration</td>
<td>1NO/1NC</td>
<td>1NO/1NC, 2NO,2NC</td>
<td>1NO, 1NC, 1NO/1NO</td>
<td>1NC,1NO,2NC,2NO</td>
</tr>
<tr>
<td>IP/NEMA Ratings</td>
<td>IP 65 / NEMA 4</td>
<td>IP 66 / NEMA 4</td>
<td>IP 65</td>
<td>IP 40</td>
</tr>
<tr>
<td>Contact Ratings</td>
<td>A300 (10A/250V)</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
</tr>
<tr>
<td>Actuator</td>
<td>plunger, roller, roller lever, rod, spring wire, cat whisker, wobble stick</td>
<td>plunger, roller, roller lever, rod, spring wire, cat whisker, wobble stick</td>
<td>plunger, roller, roller lever, rod, spring wire, wobble stick</td>
<td></td>
</tr>
<tr>
<td>Certificates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Family</th>
<th>SSD4 Latching Limit Switch</th>
<th>SND-LAT Latching Limit Switch</th>
<th>GPS-1 Neutral switch</th>
<th>GPS-2 Reverse switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Dimensions (mm) LxWxH</td>
<td>40 x 35 x 106</td>
<td>30 x 30 x 62</td>
<td>31 x 27 x 27</td>
<td>31 x 27 x 27</td>
</tr>
<tr>
<td>Enclosure Material</td>
<td>Fiber-reinforced plastic</td>
<td>Fiber-reinforced plastic</td>
<td>Zinc alloy</td>
<td>Zinc alloy</td>
</tr>
<tr>
<td>Characteristics</td>
<td>- Conform to EN50047</td>
<td>- Conform to EN50047</td>
<td>- Electrically Life:1000000</td>
<td>- Electrically Life:1000000</td>
</tr>
<tr>
<td></td>
<td>- Positive opening contact</td>
<td>- Positive opening contact</td>
<td>- Mechanically Life:5000000</td>
<td>- Mechanically Life:5000000</td>
</tr>
<tr>
<td></td>
<td>- Remote reset</td>
<td>- With reset</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Galvanically separated contacts</td>
<td>- Galvanically separated contacts</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 3-Conduit entries: M16</td>
<td>- Conduit entries:M16, PG 13.5, 1/2NPT, M20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact Configuration</td>
<td>1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NC/1NO</td>
<td>1NO/1NC, 2NO, 2NC, 3NO, 3NC, 2NO/1NC, 2NC/1NO</td>
<td>1NC</td>
<td>1NO</td>
</tr>
<tr>
<td>IP/NEMA Ratings</td>
<td>IP 66</td>
<td>IP 67 / NEMA 4, 4X, 6</td>
<td>IP 67</td>
<td>IP 67</td>
</tr>
<tr>
<td>Contact Ratings</td>
<td>A600/Q300</td>
<td>A600/Q300</td>
<td>5A/32VDC</td>
<td>5A/32VDC</td>
</tr>
<tr>
<td>Actuator</td>
<td>actuator heads including: plunger, roller,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Certificates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Micro Switches

<table>
<thead>
<tr>
<th>Product Family</th>
<th>Z-15/20/25G</th>
<th>ZY-10G</th>
<th>S-13/14</th>
<th>S-19/20</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>Body Dimensions (mm) LxWxH</strong></td>
<td>49.2 x 17.5 x 24</td>
<td>49.2 x 17.4 x 26.5</td>
<td>46.3 x 15.8 x 16.3</td>
<td>46.3 x 15.8 x 28.6</td>
</tr>
<tr>
<td><strong>Enclosure Material</strong></td>
<td>Phenolic</td>
<td>Phenolic</td>
<td>Phenolic</td>
<td>Phenolic</td>
</tr>
</tbody>
</table>
| **Characteristics** | - Long service life  
- Wide choice of head | - Long-life mechanism  
- Low cost  
- High temperature rating | - Long-life mechanism  
- Low cost  
- High temperature rating | - Long-life mechanism  
- Low cost  
- High temperature rating |
| **Contact Configuration** | SPDT | 2NO, 2NC | 1NO, 1NC, 1NO/1NO | 2NO, 2NC, 2NO/2NO |
| **IP/NEMA Ratings** | IP40 | IP40 | IP20 | IP40 |
| **Actuator** | actuator heads including: plunger, roller, lever, panel mount, roller lever etc | actuator heads including: plunger, roller, lever, panel mount, roller lever etc | button, lever, roller lever, panel mount | button, lever, roller lever, panel mount |
| **Certificates** | ![Certification](image5.png) | ![Certification](image6.png) | ![Certification](image7.png) | ![Certification](image8.png) |

<table>
<thead>
<tr>
<th>Product Family</th>
<th>SW3</th>
<th>SLD-7</th>
<th>V-10G/V-15G</th>
<th>SXP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image9.png" alt="Image" /></td>
<td><img src="image10.png" alt="Image" /></td>
<td><img src="image11.png" alt="Image" /></td>
<td><img src="image12.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>Body Dimensions (mm) LxWxH</strong></td>
<td>64 x 21 x 32.5</td>
<td>35 x 11 x 17.2 (28.8)</td>
<td>27.8 x 10.3 x 13.1</td>
<td>30 x 12.4 x 30 (33.6)</td>
</tr>
<tr>
<td><strong>Enclosure Material</strong></td>
<td>Phenolic</td>
<td>Plastic (94-V0)</td>
<td>Plastic (94-V0)</td>
<td>Plastic (94-V0)</td>
</tr>
</tbody>
</table>
| **Characteristics** | - Long-life mechanism  
- Double break  
- High temperature rating | - Long service life  
- Prewired | - Long service life  
- Wide choice of head | - Long service life  
- Pull to test function  
- Double break |
<p>| <strong>Contact Configuration</strong> | 1NO/1NC or 2NO/2NC | SPDT | SPDT | SPDT |
| <strong>IP/NEMA Ratings</strong> | IP40 | IP67 / NEMA 4, 4X, 6 | IP40 | IP40 |
| <strong>Contact Ratings</strong> | 15A, 20A, 25A (0-480V) | 10/15A 250V | 10/15A 250V | A300 (10A, 300V) |
| <strong>Actuator</strong> | button or lever | button or lever | 10+ actuator heads including: plunger, roller, roller lever, rod, spring wire etc | button or lever |
| <strong>Certificates</strong> | <img src="image13.png" alt="Certification" /> | <img src="image14.png" alt="Certification" /> | <img src="image15.png" alt="Certification" /> | <img src="image16.png" alt="Certification" /> |</p>
<table>
<thead>
<tr>
<th>Product Family</th>
<th>EDC-51/52</th>
<th>EDC-61/62</th>
<th>EDC-71/72</th>
<th>EDC-8</th>
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</thead>
<tbody>
<tr>
<td>Product Picture</td>
<td><img src="image1.png" alt="Door Contact" /></td>
<td><img src="image2.png" alt="Door Contact" /></td>
<td><img src="image3.png" alt="Door Contact" /></td>
<td><img src="image4.png" alt="Door Contact" /></td>
</tr>
<tr>
<td>Body Dimensions (mm) LxWxH</td>
<td>52 x 16(19) x 31.5</td>
<td>50 x 16(19) x 24.5</td>
<td>44 x 18.6 x 43</td>
<td>52 x 18 x 30</td>
</tr>
<tr>
<td>Enclosure Material</td>
<td>Plastic (94-V0)</td>
<td>Plastic (94-V0)</td>
<td>Plastic (94-V0)</td>
<td>Plastic (94-V0)</td>
</tr>
</tbody>
</table>
| Characteristics | - Self-cleaning double break contact for long service life  
- Positive opening contact  
- Quiet functioning | - Self-cleaning double break contact for long service life  
- Positive opening contact  
- Quiet functioning | - Self-cleaning double break contact for long service life  
- Positive opening contact  
- Quiet functioning | - Self-cleaning double break contact for long service life  
- Positive opening contact  
- Quiet functioning |
| Contact Configuration | 1NC | 1NC | 1NC | 1NC |
| IP/NEMA Ratings | IP20 | IP20 | IP20 | IP20 |
| Contact Ratings | 2A/230VAC; 2A/200VDC  
2A/230VAC; 2A/200VDC | 2A/230VAC; 2A/200VDC  
2A/230VAC; 2A/200VDC | 2A/230VAC; 2A/200VDC  
2A/230VAC; 2A/200VDC | 2A/230VAC; 2A/200VDC  
2A/230VAC; 2A/200VDC |
| Certificates | | | | |

<table>
<thead>
<tr>
<th>Product Family</th>
<th>EDC-92</th>
<th>DCA-18/21/24</th>
<th>DCA-S</th>
<th>DCA-F/F2</th>
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<tbody>
<tr>
<td>Product Picture</td>
<td><img src="image5.png" alt="Door Contact" /></td>
<td><img src="image6.png" alt="Actuator" /></td>
<td><img src="image7.png" alt="Actuator" /></td>
<td><img src="image8.png" alt="Actuator" /></td>
</tr>
<tr>
<td>Body Dimensions (mm) LxWxH</td>
<td>40 x 18 x 40</td>
<td>41 x (18/21/24) x 12</td>
<td>40 x 28 x 9.5</td>
<td>40 x 28 x 9.5</td>
</tr>
<tr>
<td>Enclosure Material</td>
<td>Plastic (94-V0)</td>
<td>Plastic (94-V0)</td>
<td>Plastic (94-V0)</td>
<td>Plastic (94-V0)</td>
</tr>
</tbody>
</table>
| Characteristics | - Self-cleaning double break contact for long service life  
- Positive opening contact  
- Quiet functioning | - Apply to EDC5, EDC6, EDC7, EDC8, EDC9 | - Apply to EDC5, EDC6, EDC7, EDC8, EDC9 | - Apply to EDC5, EDC6, EDC7, EDC8, EDC9 |
| Contact Configuration | 1NC | | | |
| IP/NEMA Ratings | IP20 | | | |
| Contact Ratings | 2A/230VAC; 2A/200VDC | | | |
| Actuator | DCA-18, DCA-21, DCA-24, DCA-5, DCA-F, DCA-F2 | | | |
| Certificates | | | | |
## Indicator Lights and 22mm Operators

<table>
<thead>
<tr>
<th>Product Family</th>
<th>IL-1</th>
<th>IL-2</th>
<th>IL-3</th>
<th>IL-4</th>
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<tbody>
<tr>
<td>Product Picture</td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>5/16&quot; (8mm)</td>
<td>8.2mm</td>
<td>12.2mm</td>
<td>1/2&quot; (12.7mm)</td>
</tr>
<tr>
<td>Characteristics</td>
<td>- Available colors: red, blue, green, amber</td>
<td>- Available colors: red, blue, green, amber</td>
<td>- Available colors: red, blue, green, amber</td>
<td>- Available colors: red, blue, green, amber</td>
</tr>
<tr>
<td>Lamp Voltage</td>
<td>6, 12, 24, 48, 120V, 240V</td>
<td>6, 12, 24, 48, 120V, 240V</td>
<td>6, 12, 24, 48, 120V, 240V</td>
<td>6, 12, 24, 48, 120V, 240V</td>
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<tr>
<td>Contact Ratings</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>IP/NEMA Ratings</td>
<td>IP40 (IP65 with seal)</td>
<td>IP40 (IP65 with seal)</td>
<td>IP40 (IP65 with seal)</td>
<td>IP40</td>
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<tr>
<td>Certificates</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Family</th>
<th>IL-5</th>
<th>IL-6</th>
<th>MB22-FP</th>
<th>MB22-S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Picture</td>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
<td><img src="image7.png" alt="Image" /></td>
<td><img src="image8.png" alt="Image" /></td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>3/4&quot; (18mm)</td>
<td>22mm</td>
<td>22mm</td>
<td>22mm</td>
</tr>
<tr>
<td>Characteristics</td>
<td>- Available colors: red, blue, green, amber, white</td>
<td>- Available colors: red, blue, green, amber, black</td>
<td>- Available colors: red, blue, green, amber, black</td>
<td>- Available colors: red, blue, green, amber, black</td>
</tr>
<tr>
<td>Lamp Voltage</td>
<td>6, 12, 24, 48, 120V, 240V</td>
<td>6, 12, 24, 48, 120V, 240V, 380, 600V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact ratings</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP/NEMA Ratings</td>
<td>IP40 (IP65 with seal)</td>
<td>IP40 (IP65 with seal)</td>
<td>IP40</td>
<td>IP40</td>
</tr>
<tr>
<td>Certificates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Picture</td>
<td><img src="image9.png" alt="Image" /></td>
<td><img src="image10.png" alt="Image" /></td>
<td><img src="image11.png" alt="Image" /></td>
<td><img src="image12.png" alt="Image" /></td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>22mm</td>
<td>22mm</td>
<td>22mm</td>
<td>22mm</td>
</tr>
<tr>
<td>Characteristics</td>
<td>- Available colors: red, blue, green, amber</td>
<td>- Available colors: red, blue, green, amber</td>
<td>- Plastic or metal ring</td>
<td>- Plastic or metal ring</td>
</tr>
<tr>
<td>Lamp Voltage</td>
<td>6, 12, 24, 120, 240V</td>
<td>6, 12, 24, 120, 240V</td>
<td>6, 12, 24, 120, 240V</td>
<td>6, 12, 24, 120, 240V</td>
</tr>
<tr>
<td>Contact Ratings</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP/NEMA Ratings</td>
<td>IP40 (or IP65)</td>
<td>IP40 (or IP65)</td>
<td>IP40 (or IP65)</td>
<td>IP40 (or IP65)</td>
</tr>
<tr>
<td>Certificates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 22mm Operators

<table>
<thead>
<tr>
<th>Product Family</th>
<th>PB22-MP</th>
<th>PB22-ET/ES</th>
<th>PB22-SK</th>
<th>PB22-MF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image1" alt="Mushroom Pushbuttons" /></td>
<td><img src="image2" alt="Emergency Stop" /></td>
<td><img src="image3" alt="Key Selector Switches" /></td>
<td><img src="image4" alt="ON/OFF Pushbuttons" /></td>
</tr>
<tr>
<td><strong>Mounting Hole Diameter</strong></td>
<td>22mm</td>
<td>22mm</td>
<td>22mm</td>
<td>22mm</td>
</tr>
<tr>
<td><strong>Characteristics</strong></td>
<td>- Plastic or metal ring</td>
<td>- Plastic or metal ring</td>
<td>- Plastic or metal ring</td>
<td>- Plastic or metal ring</td>
</tr>
<tr>
<td></td>
<td>- Available colors: red, blue, green, amber, black</td>
<td>- Push-pull or turn-reset</td>
<td>- 2 or 3 position</td>
<td>- Standard or with indicator</td>
</tr>
<tr>
<td><strong>Lamp Voltage</strong></td>
<td>6, 12, 24, 120, 240V</td>
<td>6, 12, 24, 120, 240V</td>
<td>6, 12, 24, 120, 240V</td>
<td>6, 12, 24, 120, 240V</td>
</tr>
<tr>
<td><strong>Contact Ratings</strong></td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
</tr>
<tr>
<td><strong>IP/NEMA Ratings</strong></td>
<td>IP40 (or IP65)</td>
<td>IP40 (or IP65)</td>
<td>IP40 (or IP65)</td>
<td>IP40 (or IP65)</td>
</tr>
<tr>
<td><strong>Certificates</strong></td>
<td><img src="image5" alt="UL" /></td>
<td><img src="image6" alt="UL" /></td>
<td><img src="image7" alt="UL" /></td>
<td><img src="image8" alt="UL" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Family</th>
<th>PBM22-FP/EP</th>
<th>PBM22-S/SL</th>
<th>PBM22-SK</th>
<th>PBM22-JS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image9" alt="Pushbuttons" /></td>
<td><img src="image10" alt="Selector Switches" /></td>
<td><img src="image11" alt="Key Selector Switches" /></td>
<td><img src="image12" alt="Joystick" /></td>
</tr>
<tr>
<td><strong>Mounting Hole Diameter</strong></td>
<td>22mm</td>
<td>22mm</td>
<td>22mm</td>
<td>22mm</td>
</tr>
<tr>
<td><strong>Characteristics</strong></td>
<td>- Flush or extended button</td>
<td>- Flush or extended button</td>
<td>- 2 or 3 position</td>
<td>- 3-position or 5-position</td>
</tr>
<tr>
<td></td>
<td>- Available button colors: red, blue, green, amber, black</td>
<td>- Standard and illuminated</td>
<td>- Maintained or momentary</td>
<td>- Maintained or momentary</td>
</tr>
<tr>
<td><strong>Lamp Voltage</strong></td>
<td>6, 12, 24, 120, 240V</td>
<td>6, 12, 24, 120, 240V</td>
<td>6, 12, 24, 120, 240V</td>
<td>6, 12, 24, 120, 240V</td>
</tr>
<tr>
<td><strong>Contact Ratings</strong></td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
</tr>
<tr>
<td><strong>IP/NEMA Ratings</strong></td>
<td>IP40 (or IP65)</td>
<td>IP40 (or IP65)</td>
<td>IP40 (or IP65)</td>
<td>IP40 (or IP65)</td>
</tr>
<tr>
<td><strong>Certificates</strong></td>
<td><img src="image13" alt="UL" /></td>
<td><img src="image14" alt="UL" /></td>
<td><img src="image15" alt="UL" /></td>
<td><img src="image16" alt="UL" /></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Family</th>
<th>PBM22-MP</th>
<th>PBM22-ET/ES</th>
<th>PBM22-MF</th>
<th>PBM22-PL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image17" alt="Mushroom Pushbuttons" /></td>
<td><img src="image18" alt="Emergency Stop" /></td>
<td><img src="image19" alt="ON/OFF Pushbuttons" /></td>
<td><img src="image20" alt="Pilot Lights" /></td>
</tr>
<tr>
<td><strong>Mounting Hole Diameter</strong></td>
<td>22mm</td>
<td>22mm</td>
<td>22mm</td>
<td>22mm</td>
</tr>
<tr>
<td><strong>Characteristics</strong></td>
<td>- Available knob colors: red, blue, green, amber, black</td>
<td>- Push-pull, turn-reset or key reset</td>
<td>- Available colors: red, blue, green, amber, clear</td>
<td></td>
</tr>
<tr>
<td><strong>Lamp Voltage</strong></td>
<td>6, 12, 24, 120, 240V</td>
<td>6, 12, 24, 120, 240V</td>
<td>6, 12, 24, 120, 240V</td>
<td>6, 12, 24, 120, 240V</td>
</tr>
<tr>
<td><strong>Contact Ratings</strong></td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
</tr>
<tr>
<td><strong>IP/NEMA Ratings</strong></td>
<td>IP40 (or IP65)</td>
<td>IP40 (or IP65)</td>
<td>IP40 (or IP65)</td>
<td>IP40 (or IP65)</td>
</tr>
<tr>
<td><strong>Certificates</strong></td>
<td><img src="image21" alt="UL" /></td>
<td><img src="image22" alt="UL" /></td>
<td><img src="image23" alt="UL" /></td>
<td><img src="image24" alt="UL" /></td>
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</tbody>
</table>
## 30mm Operators

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image1" alt="Pushbuttons" /></td>
<td><img src="image2" alt="Selector Switches" /></td>
<td><img src="image3" alt="Mushroom Buttons" /></td>
<td><img src="image4" alt="Emergency Stop" /></td>
</tr>
<tr>
<td><strong>Mounting Hole Diameter</strong></td>
<td>30mm</td>
<td>30mm</td>
<td>30mm</td>
<td>30mm</td>
</tr>
<tr>
<td><strong>Characteristics</strong></td>
<td>- Plastic or zinc die cast body</td>
<td>- Plastic or zinc die cast body</td>
<td>- Plastic or zinc die cast body</td>
<td>- Plastic or zinc die cast body</td>
</tr>
<tr>
<td></td>
<td>- Available button colors: red, blue, green, amber, black, white, yellow</td>
<td>- Available knob colors: red, blue, green, amber, black</td>
<td>- Available colors: red, blue, green, amber, black white, yellow</td>
<td>- Styles: push-pull</td>
</tr>
<tr>
<td><strong>Lamp Voltage</strong></td>
<td>- Extend, Flush or Guarded</td>
<td>- 2, 3, 4 positions</td>
<td>- Maintained or momentary</td>
<td>- 2, 3, 4 positions</td>
</tr>
<tr>
<td><strong>Contact Ratings</strong></td>
<td>- Extend, Flush or Guarded</td>
<td>- 2, 3, 4 positions</td>
<td>- Maintained or momentary</td>
<td>- Extend, Flush or Guarded</td>
</tr>
<tr>
<td><strong>IP/NEMA Ratings</strong></td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
</tr>
<tr>
<td><strong>Certificates</strong></td>
<td>UL cUL</td>
<td>UL cUL</td>
<td>UL cUL</td>
<td>UL cUL</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Family</th>
<th>PBM30-SK</th>
<th>PBM30-BG</th>
<th>PBM30-JS</th>
<th>PBM30-ES/ET</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image5" alt="Key Selector Switches" /></td>
<td><img src="image6" alt="Break-Glass Switches" /></td>
<td><img src="image7" alt="Joy Stick Switches" /></td>
<td><img src="image8" alt="Illuminated Pushbuttons" /></td>
</tr>
<tr>
<td><strong>Mounting Hole Diameter</strong></td>
<td>30mm</td>
<td>30mm</td>
<td>30mm</td>
<td>30mm</td>
</tr>
<tr>
<td><strong>Characteristics</strong></td>
<td>- Maintained or momentary</td>
<td>- Come with replacement glass discs</td>
<td>- Plastic or zinc die cast body</td>
<td>- Plastic or zinc die cast body</td>
</tr>
<tr>
<td></td>
<td>- 2, 3, 4 positions</td>
<td>- 3 or 5 positions</td>
<td>- Maintained or momentary</td>
<td>- Available colors: red, blue, green, amber, white, yellow, clear</td>
</tr>
<tr>
<td><strong>Lamp Voltage</strong></td>
<td>- Maintained or momentary</td>
<td>- 2, 3, 4 positions</td>
<td>- 2, 3, 4 positions</td>
<td>- Available in: 1K, 2.5K, 5K, 10K, 25K</td>
</tr>
<tr>
<td><strong>Contact Ratings</strong></td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
</tr>
<tr>
<td><strong>IP/NEMA Ratings</strong></td>
<td>IP65</td>
<td>IP65</td>
<td>IP65</td>
<td>IP65</td>
</tr>
<tr>
<td><strong>Certificates</strong></td>
<td>UL cUL</td>
<td>UL cUL</td>
<td>UL cUL</td>
<td>UL cUL</td>
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</table>

<table>
<thead>
<tr>
<th>Product Family</th>
<th>PBM-GP-D</th>
<th>PBM30-MIP</th>
<th>PBM30-PTL</th>
<th>PBM30-VR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image9" alt="Illuminated Pushbuttons" /></td>
<td><img src="image10" alt="Maintained/Interlock" /></td>
<td><img src="image11" alt="Push-to-test Pilot Lights" /></td>
<td><img src="image12" alt="Potentiometers" /></td>
</tr>
<tr>
<td><strong>Mounting Hole Diameter</strong></td>
<td>30mm</td>
<td>30mm</td>
<td>30mm</td>
<td>30mm</td>
</tr>
<tr>
<td><strong>Characteristics</strong></td>
<td>- Plastic or zinc die cast body</td>
<td>- Plastic or zinc die cast body</td>
<td>- Plastic or zinc die cast body</td>
<td>- Available in: 1K, 2.5K, 5K, 10K, 25K</td>
</tr>
<tr>
<td></td>
<td>- Available button colors: red, blue, green, amber, white, yellow, clear</td>
<td>- Available button colors: red, blue, green, amber, white, yellow, clear</td>
<td>- Plastic or zinc die cast body</td>
<td>- Styles: push-pull</td>
</tr>
<tr>
<td><strong>Contact Ratings</strong></td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
</tr>
<tr>
<td><strong>IP/NEMA Ratings</strong></td>
<td>IP65</td>
<td>IP65</td>
<td>IP65</td>
<td>IP65</td>
</tr>
<tr>
<td><strong>Certificates</strong></td>
<td>UL cUL</td>
<td>UL cUL</td>
<td>UL cUL</td>
<td>UL cUL</td>
</tr>
</tbody>
</table>
## Control Stations/Pendant Stations and Enclosures

<table>
<thead>
<tr>
<th>Product Family</th>
<th>CSP-22</th>
<th>CSZ-22</th>
<th>CSD</th>
<th>CSB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Picture</td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>22mm mounting holes</td>
<td>22mm mounting holes</td>
<td>52 x 55 x 97 (131)</td>
<td>57 x 76 x117</td>
</tr>
<tr>
<td>Characteristics</td>
<td>- Robust fiber reinforced plastics</td>
<td>- Zinc or aluminum die cast</td>
<td>- Steel base and plastic cover</td>
<td>- Robust fiber reinforced plastics</td>
</tr>
<tr>
<td></td>
<td>- Available 1 to 5 holes</td>
<td>- Available 1 to 6 holes</td>
<td>- 1 or 3 button</td>
<td>- Available in red, yellow or black</td>
</tr>
<tr>
<td>Contact Ratings</td>
<td>A600/Q600</td>
<td>A600/Q600</td>
<td>A600/P600</td>
<td>A600/P600</td>
</tr>
<tr>
<td>IP/NEMA Ratings</td>
<td>IP 65 / NEMA 4/4X</td>
<td>IP 65 / NEMA 4</td>
<td>IP 20 / NEMA 1</td>
<td>IP 65 / NEMA 4/4X</td>
</tr>
<tr>
<td>Certificates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mounting Hole Diameter</td>
<td>70 x 83 x110</td>
<td>53 x 74 x292</td>
<td>44 x 70 x 276</td>
<td>Various</td>
</tr>
<tr>
<td>Characteristics</td>
<td>- Zinc die cast body</td>
<td>- Robust fiber reinforced plastics</td>
<td>- Robust fiber reinforced plastics</td>
<td>- Robust fiber reinforced plastics</td>
</tr>
<tr>
<td></td>
<td>- Interlock and maintained options are available</td>
<td>- 1-speed or 2-speed</td>
<td>- 1-speed or 2-speed</td>
<td>- 1-speed or 2-speed</td>
</tr>
<tr>
<td></td>
<td>- Robust fiber reinforced plastics</td>
<td>- Interlock options</td>
<td>- Interlock options</td>
<td>- Interlock options</td>
</tr>
<tr>
<td>Contact Ratings</td>
<td>A600/P600</td>
<td>A600/P600</td>
<td>A600/P600</td>
<td>A600/Q600</td>
</tr>
<tr>
<td>Certificates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product Family</td>
<td>800</td>
<td>700</td>
<td>TL50 TL70 TL90</td>
<td>CB</td>
</tr>
<tr>
<td>Product Picture</td>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
<td><img src="image7.png" alt="Image" /></td>
<td><img src="image8.png" alt="Image" /></td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>Various</td>
<td>50mm, 70mm, 90mm</td>
<td>4, 6, 8, 10 inches</td>
<td>Various</td>
</tr>
<tr>
<td>Characteristics</td>
<td>- Available in following color: red, blue, green, amber, clear</td>
<td>- Available in following color: red, blue, green, amber, clear</td>
<td>Availe in red and gray</td>
<td>- Available 1 to 22 position</td>
</tr>
<tr>
<td></td>
<td>- LED, Inandescent or strobe</td>
<td>- LED, Inandescent or strobe</td>
<td>Voltages: 6, 12, 24, 120, 240, 380V</td>
<td>- Current capacity: 15 to 150A</td>
</tr>
<tr>
<td></td>
<td>- Flashing or steady</td>
<td>- Flashing or steady</td>
<td>Sound module</td>
<td></td>
</tr>
<tr>
<td>IP/NEMA Ratings</td>
<td>IP 65</td>
<td>IP 65</td>
<td>Indoor and Outdoor</td>
<td></td>
</tr>
<tr>
<td>Certificates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Industrial and Medical Foot Switches

### Product Family

<table>
<thead>
<tr>
<th>Product Family</th>
<th>FS-1</th>
<th>FS-81</th>
<th>FS-9</th>
<th>FSC-3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image1.png" alt="Product Picture" /></td>
<td><img src="image2.png" alt="Product Picture" /></td>
<td><img src="image3.png" alt="Product Picture" /></td>
<td><img src="image4.png" alt="Product Picture" /></td>
</tr>
</tbody>
</table>

**IDM Foot Switches**

**Characteristics**

- Robust glass fiber reinforced plastics or zinc die cast body
- Custom color available
- SPDT, DPDT or 2-stage
- Push-on/push-off available
- Available in 1 or 2 pedals
- SPDT, DPDT or 2-stage
- Push-on/push-off available

**Dimensions (mm)**

<table>
<thead>
<tr>
<th>Light Duty</th>
<th>Light to Medium Duty</th>
<th>Medium Duty</th>
<th>Medium to Heavy Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 x 21.5 x 103.5</td>
<td>108 x 31 x 132</td>
<td>70 x 36 x 80</td>
<td>89 x 54 x 142.5</td>
</tr>
</tbody>
</table>

**Contact Ratings**

- 10A, 15A 250VAC
- 10A, 15A, 20A, 25A 250V

**IP/NEMA Ratings**

- IP20 (or IPX8)
- IP65
- IP20 (or IPX8)
- IP20 (or IPX8)

**Certificates**

- UL
- cUL
- CE
- CSA

### Product Family

<table>
<thead>
<tr>
<th>Product Family</th>
<th>FS-5</th>
<th>FS-61G</th>
<th>FS-62G</th>
<th>FAS-1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image5.png" alt="" /></td>
<td><img src="image6.png" alt="Product Picture" /></td>
<td><img src="image7.png" alt="Product Picture" /></td>
<td><img src="image8.png" alt="Product Picture" /></td>
</tr>
</tbody>
</table>

**Heavy Duty Foot Switches**

**Characteristics**

- Iron cast based with aluminum alloy die cast body
- SPDT, DPDT or 2-stage
- Options: maintained, anti-trip, pressure point, variable speed

**Dimensions (mm)**

<table>
<thead>
<tr>
<th>Heavy Duty</th>
<th>Heavy Duty</th>
<th>Heavy Duty</th>
<th>Air Switches</th>
</tr>
</thead>
<tbody>
<tr>
<td>157 x 140 x 237</td>
<td>164 x 157 x 248</td>
<td>275 x 151 x 254</td>
<td>117 x 32 x 71</td>
</tr>
</tbody>
</table>

**Contact Ratings**

- 20A, 25A, 250VAC
- 10A, 600V, A600/Q300

**IP/NEMA Ratings**

- IP65 / NEMA 4
- IP65 / NEMA 4
- IP65 / NEMA 4
- IP68 / NEMA 6, 6P

**Certificates**

- UL
- cUL
- CE
- CSA

### Product Family

<table>
<thead>
<tr>
<th>Product Family</th>
<th>FS-82-SP -W</th>
<th>FS-62</th>
<th>FS-82-SP</th>
<th>FS-72</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image9.png" alt="Product Picture" /></td>
<td><img src="image10.png" alt="Product Picture" /></td>
<td><img src="image11.png" alt="Product Picture" /></td>
<td><img src="image12.png" alt="Product Picture" /></td>
</tr>
</tbody>
</table>

**Medical Foot Switches**

**Characteristics**

- Robust glass fiber reinforced plastics or zinc die cast body
- Custom color available
- SPDT, DPDT or 2-stage
- Medical 60601-1 Certified

**Dimensions (mm)**

<table>
<thead>
<tr>
<th>Medical Footswitches</th>
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<th>Medical Footswitches</th>
<th>Medical Footswitches</th>
</tr>
</thead>
<tbody>
<tr>
<td>290 x 34 x 135</td>
<td>192 x 62 x 220</td>
<td>214 x 38 x 108</td>
<td>222 x 60 x 147</td>
</tr>
</tbody>
</table>

**Contact Ratings**

- 10A, 300V, 5A, 25V, 1A, 1/60VDC
- 10A, 300V, 5A, 25V, 1A, 1/60VDC
- 10A, 300V, 5A, 25V, 1A, 1/60VDC
- 10A, 250V, 5A, 25V, 1A, 1/60VDC

**IP/NEMA Ratings**

- IP 20 (or IP X8)
- IP 65
- IP 20 (or IP X8)
- IP 20 (or IP X8)

**Certificates**

- UL
- cUL
- CE
- CSA
# Proximity Sensors

<table>
<thead>
<tr>
<th>Product Family</th>
<th>SLS</th>
<th>SLC</th>
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</thead>
<tbody>
<tr>
<td><strong>Product Picture</strong></td>
<td><img src="image1.png" alt="Inductive Proximity Sensors" /></td>
<td><img src="image2.png" alt="Inductive Proximity Sensors" /></td>
</tr>
<tr>
<td><strong>Inductive Proximity Sensors</strong></td>
<td>Shielded and non-shielded</td>
<td>Shielded and non-shielded</td>
</tr>
<tr>
<td>- 10-36VDC and 20-250VAC</td>
<td>- 10-36VDC and 20-250VAC</td>
<td></td>
</tr>
<tr>
<td>- Reverse polarity protection</td>
<td>- Reverse polarity protection</td>
<td></td>
</tr>
<tr>
<td>- Short circuit protection</td>
<td>- Short circuit protection</td>
<td></td>
</tr>
<tr>
<td>- Red LED indicators</td>
<td>- Red LED indicators</td>
<td></td>
</tr>
<tr>
<td>- Cable or M12 connector</td>
<td>- Cable or M12 connector</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions (mm)</strong></td>
<td>17x17, 25x25, 30x30, 40x40</td>
<td>M8, M12, M18, M30</td>
</tr>
<tr>
<td><strong>Characteristics</strong></td>
<td>- Shielded and non-shielded</td>
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<td>- 10-36VDC and 20-250VAC</td>
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</tr>
<tr>
<td><strong>Contact Ratings</strong></td>
<td>200mA</td>
<td>200mA</td>
</tr>
<tr>
<td><strong>IP/NEMA Ratings</strong></td>
<td>IP 67</td>
<td>IP 67</td>
</tr>
<tr>
<td><strong>Certificates</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**North & South America**

- **USA**
  - SUNS International LLC
  - 127 Riverneck Road, Chelmsford, MA 01824, Ph. +1-978-349-2329, Fax +1-978-349-2330
  - Email: info@suns-usa.com  Http://www.suns-usa.com

**Asia Pacific / China**

- **China/Shanghai**
  - SUNS Industrial Switch (Shanghai) Co.
  - 15G Mei Xin Building, 728 Xizang Zhong Road, Huangpu District,Ph. +86-21-53082745 Fax +86-21-53082746

- **China/Zhangzhou**
  - SUNS Electric (Zhangzhou) Co. Ltd.
  - Xinxing Industrial Zone, Longhai city, Fujian, Ph. +86-596-2300466 Fax +86-596-2300378

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  - SUNS/EFA GmbH
  - Mollwitzstrasse 2, D-14059, Berlin, Tel. +49 30 3011187-0 Fax +49 30 3011187-77

- **France**
  - SUNS/EFA France GmbH
  - Z.A. La Haute Limougere, 3, rue Claude Chappe, F-37230 Fondettes. Tel. +33 247617850 Fax +33 247617851

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  - SUNS/PROSWEDE-el ab
  - Industrigatan 4, 212 14 Malmo, Tf/ Fax: +46 (0) 40 38 15 70 Fax: +46 (0) 40 38 15 78

- **Greece**
  - SUNS/TOP Electronic Components S.A.
  - 66 Alkminis & Aristouvolou Str. K. Petralona, 118 53, Athens, Ph: +30 210 3428690 Fax No.: +30 210 342869

- **Poland**
  - SUNS/Indual Sp. z o.o.
  - Centrwalna firmy 26-220 Sapatowk w ul. Staszica 5 tel:+48 41 374 02 67 fax: +48 41 374 02 66