

MICROSWITCHES SELECTION GUIDE

06/2021

SNAP-ACTION SWITCHES

| Approx. body size (mm)                                                   |           | 15x8x5                                                                            | Ø 8x8                                                                             | 13x10x5                                                                           | 13x10x5                                                                           | 20x10x6                                                                            | 20x10x6                                                                             | 20x10x6                                                                             | 20x10x6                                                                             | Ø 11x15                                                                             | 28x16x10                                                                            | 28x16x10                                                                            | 28x16x10                                                                            | 28x16x10                                                                            | 29x16x10                                                                            | 31x23x10                                                                            | 33x16x10                                                                            | 24x31x9                                                                             | 30x18x12                                                                            | 50x30x12                                                                            | 32x19x13                                                                            | 40x19x13                                                                            | 49x10x20                                                                          | 43x18x17                                                                          |          |
|--------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|
| SERIES                                                                   |           | V5S<br>8320                                                                       | 83228<br>83229                                                                    | 83141                                                                             | V5D<br>83194                                                                      | V4<br>83170                                                                        | V4D<br>8327                                                                         | V4S<br>8318                                                                         | 83132<br>83133<br>83134                                                             | 83151<br>83560                                                                      | V3<br>83161                                                                         | V3D<br>8326                                                                         | 83160                                                                               | 831607<br>832607                                                                    | 831606<br>SP3697                                                                    | V3S<br>83169                                                                        | V3DS<br>8329                                                                        | 83139                                                                               | 83137                                                                               | PBX<br>8324                                                                         | 83106<br>83109<br>83111/112                                                         | 83154                                                                               | 83123                                                                             | 83118<br>83120                                                                    |          |
| TYPE                                                                     |           | Sealed                                                                            | Cylindric<br>adjustable                                                           | High<br>accuracy                                                                  | Standard                                                                          | Premium                                                                            | Standard                                                                            | Sealed                                                                              | Double<br>break                                                                     | Hermetic<br>Inox<br>housing                                                         | Premium                                                                             | Standard                                                                            | Heavy<br>duty                                                                       | Positive<br>break                                                                   | High DC<br>rating                                                                   | Sealed                                                                              | Sealed<br>Compact                                                                   | Sealed<br>Double<br>break                                                           | Ultra<br>sensitive<br>Rotary                                                        | Sealed<br>Separated<br>circuits                                                     | Double<br>break                                                                     | High DC<br>rating                                                                   | Sealed<br>Rubber<br>housing                                                       | High<br>accuracy<br>Sensitive                                                     |          |
| Max. ratings                                                             | @ 250 V ~ | 4 A                                                                               | 5 A                                                                               | 5 A                                                                               | 5 A                                                                               | 12 A                                                                               | 12 A                                                                                | 10 A                                                                                | 6 A                                                                                 | 5 A                                                                                 | 16 A                                                                                | 25 A                                                                                | 16 A                                                                                | 6 A                                                                                 | 16 A                                                                                | 8 A                                                                                 | 10 A                                                                                | 6 A                                                                                 | 6 A                                                                                 | 10 A                                                                                | 16 A                                                                                | 16 A                                                                                | 10 A                                                                              | 10 A                                                                              |          |
|                                                                          | @ 24V ~   | 4 A                                                                               | 5 A                                                                               | 5 A                                                                               | 5 A                                                                               | 10 A                                                                               | 10 A                                                                                | 10 A                                                                                | 6 A                                                                                 | 7 A                                                                                 | 16 A                                                                                | 16 A                                                                                | 16 A                                                                                | 6 A                                                                                 | 16 A                                                                                | 8 A                                                                                 | 10 A                                                                                | 6 A                                                                                 | 6 A                                                                                 | 10 A                                                                                | 16 A                                                                                | 16 A                                                                                | 10 A                                                                              | 10 A                                                                              |          |
|                                                                          | @ 250 V ~ | 0.2 A                                                                             | 0.2 A                                                                             | 0.15 A                                                                            | 0.15 A                                                                            | 0.3 A                                                                              | 0.2 A                                                                               | 0.3 A                                                                               | 0.5 A                                                                               | 0.3 A                                                                               | 0.8 A                                                                               | 0.2 A                                                                               | 0.8 A                                                                               | 0.5 A                                                                               | 5 A                                                                                 | 0.3 A                                                                               | 0.5 A                                                                               | 0.5 A                                                                               | 0.4 A                                                                               | 0.8 A                                                                               | 0.6 A                                                                               | 5 A                                                                                 | 0.3 A                                                                             | 0.3 A                                                                             |          |
| Dual-current version                                                     |           | 1 mA → 4 A                                                                        | 1 mA → 5 A                                                                        | 1 mA → 1 A                                                                        | 1 mA → 5 A                                                                        | 1 mA → 5 A                                                                         |                                                                                     | 1 mA → 6 A                                                                          | 1 mA → 5 A                                                                          | 1 mA → 1 A                                                                          | 1 mA → 5 A                                                                          |                                                                                     | **                                                                                  | 10 mA → 6 A                                                                         |                                                                                     | 1 mA → 5 A                                                                          | 1 mA → 3 A                                                                          | 1 mA → 5 A                                                                          |                                                                                     | 1 mA → 10 A                                                                         | 10 mA → 5 A                                                                         |                                                                                     |                                                                                   |                                                                                   |          |
| Low current version                                                      |           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | 1 → 20 mA                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 1 → 20 mA                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 1 → 100 mA                                                                          |                                                                                     |                                                                                     |                                                                                     |                                                                                   |                                                                                   |          |
| Circuit diagram<br>Contact configuration<br>(for 1 pole changeover/SPDT) |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |          |
| SPST-NC / SPST-NO versions                                               |           | ✓                                                                                 |                                                                                   |                                                                                   | ✓                                                                                 | ✓                                                                                  | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   |                                                                                     | ✓                                                                                   | ✓                                                                                   | ✓                                                                                 |                                                                                   |          |
| Multipole version                                                        |           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | 2 ; 3 poles<br>(8331**)                                                             | 2 poles                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 2 poles                                                                             |                                                                                     | **                                                                                  | 2 → 6 poles<br>(8332)                                                               | 2 → 6 poles<br>(8332)                                                               |                                                                                   |                                                                                   |          |
| Bistable version (maintained action)                                     |           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | Push/Pull                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | **                                                                                  | Push/Pull                                                                           | Push/Pull                                                                           |                                                                                   |                                                                                   |          |
| Positive opening operation                                               |           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | ⤵                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | ⤵                                                                                   |                                                                                     |                                                                                     |                                                                                   |                                                                                   |          |
| Electrical disconnection                                                 |           | μ                                                                                 | μ                                                                                 | μ                                                                                 | μ                                                                                 | μ                                                                                  | μ                                                                                   | μ                                                                                   | μ                                                                                   | μ                                                                                   | μ or Full                                                                           | μ                                                                                   | μ or Full                                                                           | μ                                                                                   | Full                                                                                | μ                                                                                   | μ                                                                                   | μ                                                                                   | μ                                                                                   | Full                                                                                | μ                                                                                   | μ                                                                                   | μ                                                                                 | μ                                                                                 |          |
| Insulation voltage                                                       |           | Ui                                                                                | 250 V                                                                             | 250 V                                                                             | 250 V                                                                             | 250 V                                                                              | 250 V                                                                               | 250 V                                                                               | 250 V                                                                               | 250 V                                                                               | 400 V                                                                               | 250 V                                                                               | 400 V                                                                               | 250 V                                                                               | 250 V                                                                               | 250 V                                                                               | 250 V                                                                               | 250 V                                                                               | 250 V                                                                               | 400 V                                                                               | 250 V                                                                               | 250 V                                                                               | 250 V                                                                             | 250 V                                                                             |          |
| Protection against electric shock<br>(without additional protection)     |           |                                                                                   | Class I                                                                           | Class I                                                                           | Class I                                                                           | Class I                                                                            | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                             | Class I                                                                           | Class I                                                                           |          |
| Degree of protection                                                     |           |                                                                                   | IP67<br>IP69                                                                      | IP40                                                                              | IP40                                                                              | IP40                                                                               | IP40                                                                                | IP67<br>IP69                                                                        | IP40                                                                                | Hermetic<br>Qk test<br>10-3 Pa.cm³/s                                                | IP40                                                                                | IP40                                                                                | IP40                                                                                | IP40                                                                                | IP40                                                                                | IP40                                                                                | IP67<br>IP69                                                                        | IP67                                                                                | IP66<br>IP67                                                                        | IP40                                                                                | IP40<br>IP65<br>IP67                                                                | IP40                                                                                | IP40                                                                              | IP40                                                                              |          |
| Operating temperature                                                    |           |                                                                                   | -40 °C<br>+90 °C                                                                  | -55 °C<br>+140 °C                                                                 | -55 °C<br>+150 °C                                                                 | -40 °C<br>+150 °C                                                                  | -25 °C<br>+150 °C                                                                   | -40 °C<br>+125 °C                                                                   | -40 °C<br>+150 °C                                                                   | -55 °C<br>+250 °C                                                                   | -60 °C<br>+150 °C                                                                   | -50 °C<br>+200 °C                                                                   | -40 °C<br>+150 °C                                                                   | -40 °C<br>+125 °C                                                                   | -40 °C<br>+125 °C                                                                   | -40 °C<br>+105 °C                                                                   | -40 °C<br>+85 °C                                                                    | -40 °C<br>+105 °C                                                                   | -20 °C<br>+125 °C                                                                   | -50 °C<br>+85 °C                                                                    | -40 °C<br>+125 °C                                                                   | -40 °C<br>+125 °C                                                                   | -40 °C<br>+85 °C                                                                  | -40 °C<br>+125 °C                                                                 |          |
| Explosive atmospheres                                                    |           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | Ex**                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | IIGExd                                                                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                   |                                                                                   |          |
| Irradiated environment                                                   |           |                                                                                   |                                                                                   | ☢**                                                                               |                                                                                   |                                                                                    |                                                                                     | ☢**                                                                                 | ☢**                                                                                 |                                                                                     |                                                                                     |                                                                                     | ☢                                                                                   | ☢                                                                                   | ☢                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                   | ☢**                                                                               |          |
| Max. Operating Force                                                     |           |                                                                                   | 1.5 N                                                                             | 1.7 N                                                                             | 2 N                                                                               | 1.4 N                                                                              | 0.6 → 2.2 N                                                                         | 1.5 N                                                                               | 2.5 N                                                                               | 1.6 N ; 2.6 N                                                                       | 5 → 47 N                                                                            | 0.15 → 5 N                                                                          | 0.25 → 4 N                                                                          | 1 → 5 N                                                                             | 4 N                                                                                 | 5 N                                                                                 | 4.5 N                                                                               | 0.5 → 4.5N                                                                          | 3 N;4.5 N                                                                           | 1.2 → 2 mN.m                                                                        | 4.5 N;6.5 N                                                                         | 0.45 → 7.5 N                                                                        | 4 N                                                                               | 7.5 N                                                                             |          |
| Min. Overtravel                                                          |           |                                                                                   | 2 mm                                                                              | 0.15;1.5 mm                                                                       | 0.1 mm                                                                            | 0.25 mm                                                                            | 0.5 mm                                                                              | 0.5 mm                                                                              | 0.6 mm                                                                              | 0.27 mm                                                                             | 0.08 mm                                                                             | 1.2 mm                                                                              | 1.1 mm                                                                              | 1.3 mm                                                                              | 1.3 mm                                                                              | 1 mm                                                                                | 1 mm                                                                                | 0.25 mm                                                                             | 12°                                                                                 | 3 mm                                                                                | 0.7 mm                                                                              | 0.7 mm                                                                              | 0.25 mm                                                                           | 0.2 → 0.8 mm                                                                      |          |
| Max. Differential Travel                                                 |           |                                                                                   | 0.06 mm ;<br>0.10 mm                                                              | 0.12 mm ;<br>0.19 mm                                                              | 0.06 mm                                                                           | 0.13 mm                                                                            | 0.08 mm<br>0.15 mm                                                                  | 0.15 mm                                                                             | 0.10 mm ;<br>0.15 mm                                                                | 0.45 mm                                                                             | 0.05 mm                                                                             | 0.35 mm ;<br>0.8 mm                                                                 | 0.4 mm                                                                              | 0.3 mm ;<br>0.7 mm                                                                  | 0.3 mm                                                                              | 0.7 mm                                                                              | 0.07 mm ;<br>0.35 mm                                                                | 0.5 mm                                                                              | 0.45 mm                                                                             | 14°                                                                                 | 1.3 mm                                                                              | 0.7 mm                                                                              | 0.9 mm                                                                            | 0.2 mm                                                                            |          |
| Mechanical life (cycles)                                                 |           |                                                                                   | 1 M                                                                               | 2 M                                                                               | 2 M                                                                               | 10 M                                                                               | 30 M                                                                                | 0.1 M                                                                               | 2 M                                                                                 | 10 M                                                                                | 0.2 M                                                                               | 50 M                                                                                | 1 M                                                                                 | 10 M                                                                                | 10 M                                                                                | 1 M                                                                                 | 5 M                                                                                 | 1 M                                                                                 | 10 M                                                                                | 10 M                                                                                | 10 M                                                                                | 10 M                                                                                | 2 M                                                                               | 5 M                                                                               |          |
| Min. actuating speed                                                     |           |                                                                                   | 0.001 mm/s                                                                        | 0.01 mm/s                                                                         | 0.01 mm/s                                                                         | 0.1 mm/s                                                                           | 0.001 mm/s                                                                          | 0.1 mm/s                                                                            | 0.01 mm/s                                                                           | 0.01 mm/s                                                                           | 0.01 mm/s                                                                           | 0.001 mm/s                                                                          | 0.1 → 3mm/s                                                                         | 0.1 mm/s                                                                            | 0.1 mm/s                                                                            | 0.1 mm/s                                                                            | 0.001 mm/s                                                                          | 0.1 → 3mm/s                                                                         | 0.01 mm/s                                                                           | 1°/s                                                                                | 0.1 mm/s                                                                            | 0.01 mm/s                                                                           | 0.01 mm/s                                                                         | 0.03 mm/s                                                                         |          |
| Operating device                                                         |           |                                                                                   | Plunger                                                                           | Plunger                                                                           | Plunger                                                                           | Plunger                                                                            | Plunger                                                                             | Plunger                                                                             | Plunger                                                                             | Plunger                                                                             | Plunger                                                                             | Plunger                                                                             | Plunger                                                                             | Plunger                                                                             | Plunger                                                                             | Plunger                                                                             | Plunger                                                                             | Plunger                                                                             | Inox wire                                                                           | Plunger                                                                             | Plunger                                                                             | Plunger                                                                             | Plunger                                                                           | Plunger                                                                           |          |
| Lateral actuation on plunger                                             |           |                                                                                   | ✓                                                                                 | Ball (opt)                                                                        |                                                                                   |                                                                                    | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | Ball (opt)                                                                          |                                                                                     | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | **                                                                                  | **                                                                                  |                                                                                     |                                                                                     | Ball (opt)                                                                          | Ball (opt)                                                                          |                                                                                   |                                                                                   |          |
| Auxiliary levers (flat, bended, roller...)                               |           | Hinged<br>Flexible<br>Adjustable                                                  | ✓                                                                                 |                                                                                   | ✓                                                                                 | ✓                                                                                  | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                 | ✓                                                                                 |          |
| Telescopic plunger (option)                                              |           |                                                                                   |                                                                                   | ✓                                                                                 |                                                                                   |                                                                                    | ✓                                                                                   | ✓                                                                                   |                                                                                     | See 8354                                                                            | See 8377                                                                            | ✓                                                                                   | **                                                                                  | ✓                                                                                   |                                                                                     | ✓                                                                                   | (SP4978/4988)                                                                       |                                                                                     | (SP4257)                                                                            |                                                                                     |                                                                                     | See 83513/522                                                                       | See 83513/522                                                                     | See 8373                                                                          |          |
| Fixing means                                                             |           | Plain holes                                                                       | Ø 3 (opt)                                                                         |                                                                                   | Ø 2.1                                                                             | Ø 2.25                                                                             | Ø 2.2                                                                               | Ø 2.2 ; 2.35                                                                        | Ø 2.2                                                                               | Ø 2.1                                                                               | Ø 3.2                                                                               | Ø 3.1                                                                               | Ø 3.1                                                                               | Ø 3.2                                                                               | Ø 3.2                                                                               | Ø 3.2                                                                               | Ø 3.1                                                                               | Ø 3.1                                                                               | Ø 2.2 ; Ø 3.1                                                                       | Ø 3.2                                                                               | Ø 4.1<br>M3                                                                         | Ø 2.6<br>M3                                                                         | Ø 2.6                                                                             | Ø 3.2                                                                             |          |
|                                                                          |           | Tapped holes                                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                   |                                                                                   |          |
|                                                                          |           | Pins                                                                              | Ø 2.2                                                                             |                                                                                   |                                                                                   |                                                                                    |                                                                                     | Ø 2.6                                                                               | Ø 2.6                                                                               | Ø 2.6                                                                               |                                                                                     | See 8354                                                                            | See 8377                                                                            | M10 ; M12                                                                           | **                                                                                  | M10 ; M12                                                                           | M10 x 0.75                                                                          | M10 ; M12                                                                           | See 83581                                                                           |                                                                                     | M10 x 0.75                                                                          |                                                                                     | (83537**)                                                                         | (83537**)                                                                         | See 8373 |
|                                                                          |           | Threaded barrel                                                                   |                                                                                   | M5 x 0.5;M8 x 0.7<br>Flush mount                                                  |                                                                                   |                                                                                    | M6 x 0.75                                                                           | M6 x 0.75                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                   | ✓                                                                                 |          |
|                                                                          |           | Others                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | Snap-in**                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Snap-in                                                                             |                                                                                   |                                                                                   |          |
| Connections                                                              |           | Solder                                                                            | ✓                                                                                 | ✓                                                                                 | ✓                                                                                 | ✓                                                                                  | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   |                                                                                     |                                                                                     | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | **                                                                                | ✓                                                                                 |          |
|                                                                          |           | Quick-connect                                                                     |                                                                                   |                                                                                   |                                                                                   | **                                                                                 |                                                                                     | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   |                                                                                     | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                 | ✓                                                                                 |          |
|                                                                          |           | Printed board                                                                     | ✓                                                                                 |                                                                                   |                                                                                   | **                                                                                 |                                                                                     | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     | ✓                                                                                   | ✓                                                                                   | ✓                                                                                 | ✓                                                                                 |          |
|                                                                          |           | Screw                                                                             |                                                                                   |                                                                                   |                                                                                   | **                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | ✓                                                                                   |                                                                                     |                                                                                     | ✓                                                                                   | ✓                                                                                 |                                                                                   |          |
|                                                                          |           | Wires                                                                             | ✓                                                                                 |                                                                                   |                                                                                   |                                                                                    |                                                                                     | ✓                                                                                   |                                                                                     | ✓                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   |                                                                                     | **                                                                                  |                                                                                     |                                                                                     |                                                                                   |                                                                                   |          |
|                                                                          |           | Cable                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | ✓                                                                                   |                                                                                     | ✓                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | ✓                                                                                   | ✓                                                                                   | ✓                                                                                   | **                                                                                  | **                                                                                  |                                                                                     | ✓                                                                                   |                                                                                   |                                                                                   |          |
| Approvals                                                                |           | ENEC/CE/IECEx                                                                     | CE                                                                                | CE                                                                                | CE                                                                                | CE                                                                                 | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                  | CE                                                                                | CE                                                                                |          |
|                                                                          |           | UL                                                                                | UL                                                                                | UL                                                                                | UL                                                                                | UL                                                                                 | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                  | UL                                                                                | UL                                                                                |          |
|                                                                          |           | CCC                                                                               | CCC                                                                               | **                                                                                | CCC                                                                               | CCC                                                                                | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                                 | CCC                                                                               | CCC                                                                               |          |
|                                                                          |           | EAC                                                                               | EAC                                                                               | EAC                                                                               | EAC                                                                               | EAC                                                                                | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                                 | EAC                                                                               | EAC                                                                               |          |



\* Pending    \*\* Consult us

The features presented in this selection guide represent the extent of performance of each Microswitch Series. Not all combinations of characteristics are feasible at an individual product. Please refer to relevant product sheet or consult our customer service. For more information see also the «Basic technical concepts».

*Note: data contained in product sheets dated 2016 and before may differ from the features shown in this selection guide. Update is in progress. Please contact us for confirmation.*

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