



MICRO SWITCH Limit Switch Comparison

| Series                                     | SZL-VL-S                                                                          | NGC                                                                               | 14CE                                                                              | 914CE                                                                             | E6/V6                                                                              | E7/V7                                                                               | Compact LS                                                                          | 200LS (plug-in)                                                                     | SZL-WL                                                                              | GLA                                                                                 | GLC                                                                                 | GLD                                                                                 | GLE                                                                                 | HDLS Std & plug-in                                                                  | HDLS epoxy sealed body                                                              | HDLS stainless steel                                                                |
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| Design                                     | Miniature                                                                         | Compact                                                                           |                                                                                   |                                                                                   | Medium duty                                                                        |                                                                                     | General purpose                                                                     |                                                                                     |                                                                                     | EN50041                                                                             | EN50047 metal housing                                                               | EN50047 plastic housing                                                             | EN50047 compatible                                                                  | Heavy duty                                                                          |                                                                                     |                                                                                     |
| Typical Applications                       | Commercial, light industrial                                                      | Industrial, transportation machinery; low cost to replace                         | Industrial, transportation machinery                                              |                                                                                   | Commercial, industrial, transportation machinery                                   |                                                                                     | Industrial, transportation machinery                                                |                                                                                     | Commercial, industrial                                                              | Commercial, industrial, transportation machinery                                    |                                                                                     |                                                                                     |                                                                                     | Heavy-duty industrial and transportation, Higher cost to replace                    |                                                                                     |                                                                                     |
| Certifications                             | CCC, CE, cULus                                                                    | CE, CCC, cULus                                                                    | CE                                                                                | CE, cURus                                                                         | CE, CSA, UL                                                                        | CE                                                                                  | US: select listings CSA & UL; EU: CE                                                | US: no certifications; EU: CE                                                       | CE, CSA, UL                                                                         | CE, CCC, CSA, UL; IEC/EN 60947-5-1                                                  | CE, CCC, CSA, UL; IEC/EN 60947-5-1                                                  | CE, CCC, CSA, UL; IEC/EN 60947-5-1                                                  | CE, CCC, CSA, UL; IEC/EN 60947-5-1                                                  | CE, CCC, CSA, UL                                                                    | CE, CSA, UL                                                                         | CE, CCC, CSA, UL                                                                    |
| Mounting, centers or bushing diameter (mm) | 21 x 56                                                                           | 20 or Ø 12 bushing                                                                | 25,4 or Ø 14 bushing                                                              | 25,4 or Ø 14 bushing                                                              | Side: 25,4; Flange: 41,3                                                           | Side: 68,3 x 25,4 or 76,0; Flange: 41,3                                             | 30 x 60                                                                             | Requires 18PA style receptacle for mounting                                         | 30 x 59                                                                             | 30 x 60                                                                             | 20 to 22                                                                            | 20 to 22                                                                            | 20 to 22 and 40 to 42                                                               | 30 x 60                                                                             | 30 x 60                                                                             | 30 x 60                                                                             |
| Body dimensions (L x w [depth] x h (mm)    | 28 x 25 x 78 (including cable gland)                                              | 30,2 x 16,7 x 55,8                                                                | 40 x 16 x 44                                                                      | 40 x 16 x 44                                                                      | Side: 77,2 x 25,4 x 44,4; Flange: 77,2 x 44,4 x 54,1                               | Side: 76,4 x 25,4 or 45,2; Flange: 76,4 x 41,3 x 45,2                               | 40 x 40 x 70                                                                        | 48,8 x 64,1 (with receptacle) x 91,2                                                | 40 x 41,5 x 68,7                                                                    | 42 x 42 x 82                                                                        | 30,5 x 31,1 x 68,0                                                                  | 30,5 x 32,6 x 66,5                                                                  | 65,0 x 31,1 x 68,3                                                                  | One pole: 41,2 x 44,5 x 74,9<br>Two pole: 47,8 x 45,5 x 89,7                        | One pole: 41,2 x 44,5 x 74,9<br>Two pole: 47,8 x 45,5 x 89,8                        | 47,8 x 45,5 x 93,7                                                                  |
| Environmental Sealing                      | IP67                                                                              | IP67, NEMA 1,4, 12, 13                                                            | IP 66, 67, 68                                                                     | IP 66, 67, 68; NEMA 1, 2, 3, 3R, 4, 6, 6P, 12 (boot seal), 13                     | N Series: IP66, NEMA 1, 3, 4; Q Series: IP40, NEMA 1                               | N Series: IP65; Q Series: IP50                                                      | US: NEMA 1, 3, 4, 6 and 13; EU: IP67, NEMA 1, 4 and 13                              | US: NEMA 1, 3, 4, 6 and 13; EU: IP67, NEMA 1, 4 and 13                              | IP67                                                                                | IP67, NEMA 1, 4, 12, 13                                                             | IP66, NEMA 1, 4, 12, 13                                                             | IP66/67, NEMA 1, 4X (indoor use only), 12, 13                                       | IP66, NEMA 1, 4, 12, 13                                                             | IP65, 66, 67; NEMA 1, 3, 4, 4X, 6, 6P, 12, 13                                       | NEMA 1, 6, 6P, 12, 13                                                               | NEMA 1, 3, 3R, 4, 4X, 6, 6P, 13                                                     |
| Operating Temperature                      | -20 °C to 70 °C                                                                   | -25 °C to 75 °C                                                                   | 0 °C to 70 °C; optional -40 °C to 70 °C                                           |                                                                                   | -32 °C to 71 °C; optional -40 °C to 71 °C                                          | -30 °C to 70 °C                                                                     | -30 °C to 70 °C; optional -30 °C to 120 °C                                          | -30 °C to 70 °C                                                                     | -10 °C to 80 °C                                                                     | -25 °C to 85 °C; side rotary: -40 °C to 85 °C                                       | -40 °C to 85 °C                                                                     | -40 °C to 85 °C                                                                     | -40 °C to 85 °C                                                                     | -12 °C to 121 °C; optional -40 °C to 121 °C                                         |                                                                                     |                                                                                     |
| Electrical                                 | AC-15 A300; DC-13 Q300<br>10 A thermal                                            | AC15, A300; DC13, Q300:<br>one pole<br>10 A Thermal; two pole<br>5 A Thermal      | AC14, D300; DC13, R300:<br>5 A, 250 Vac                                           | AC14, D300; DC13, R300:<br>5 A, 250 Vac                                           | One pole: AC15, B300;<br>5 A Thermal;<br>15 A, 480 Vac                             | AC15, A300; DC13, Q300;<br>10 A Thermal                                             | US: 10 A, 480 Vac;<br>EU: AC15, A300; DC13, P300                                    | US Style, 10 A, 480 Vac;<br>EU: AC15, A300; DC13, P300                              | 10 A, 300 Vac;<br>6 A 24 Vdc                                                        | AC15, A600; DC13, Q300:<br>10 A Thermal                                             | AC15, A300; DC13, Q300:<br>10 A Thermal                                             | AC15, A300; DC13, Q300:<br>10 A Thermal                                             | AC15, A300; DC13, Q300:<br>10 A Thermal                                             | AC15, A600; DC13, R300:<br>10 A Thermal                                             | AC15, A600; DC13, R300:<br>10 A Thermal                                             | AC15, A600; DC13, R300:<br>10 A Thermal                                             |
| Positive opening NC contacts               | Side rotary only                                                                  | Yes                                                                               | No                                                                                | No                                                                                | No                                                                                 | No                                                                                  | No                                                                                  | No                                                                                  | No                                                                                  | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | No                                                                                  | No                                                                                  | No                                                                                  |
| Electrical connection*                     | Cable gland                                                                       | Pre-cabled or M12 connector                                                       | Pre-cabled or M12 connector                                                       | Pre-cabled or M12 connector                                                       | Threaded conduit, pre-cabled, or mini-style connector                              | Threaded conduit                                                                    | Threaded conduit                                                                    | Threaded conduit                                                                    | Threaded conduit                                                                    | Threaded conduit, pre-cabled, or connector                                          | Threaded conduit, pre-cabled, or connector                                          | Threaded conduit, pre-cabled, or connector                                          | Threaded conduit, pre-cabled, or connector                                          | Threaded conduit, pre-cabled or connector                                           | Threaded conduit, pre-cabled or connector                                           | Threaded conduit, pre-cabled or connector                                           |

\* Switches with cable gland or threaded conduit have terminal screws for electrical connection.

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