












MICRO SWITCH SAFETY SWITCH COMPARISON

| DESIGN | CABLE PULL | | | | MECHANICAL ACTUATION | | | KEY ACTUATION | | | |
|---|---|---|--|---|--|--|---|---|---|---|---|
| SERIES | 2CCP | 1CPS | 2CPS | CLSX | GSX | GSA | 924/24CE | GK | GKE | GKM | GKN |
| |  |  |  |  |  |  |  |  |  |  |  |
| Typical applications | Conveyor systems, perimeter guarding, packaging equipment, assembly lines | | | | Position detection, mechanical travel limits, drift detection, machine tools, material handling, doors, apertures | | | Doors, apertures, safety interlock, cabinet power isolation, and guard detection | | | |
| Certifications | UL, cUL, CE, SIL3 | UL, CSA, CE, SIL3 | UL, CSA, CE, SIL3 | UL, CSA | cULus, CE, IEC Ex, INMETRO, KOSHA, SIL3 | UL, CSA, CE, SIL 3 | CE, cULus, SIL3 | UL, CSA, CE, SIL 3 | cULus, CE, SIL3 | UL, CSA, CE, SIL3 | cULus, CE, CCC, SIL3 |
| Mounting centers (mm) | 172,7 x 50,8 | 152 x 72 | 139 x 104 | 120 x 30 | 120 x 30 | 30 x 60 | 25 | 30 x 60 | 20 | 22 | 40 |
| Housing | Aluminium | Zinc | Zinc | Aluminium | Aluminium | Zinc | Zinc | Zinc | Polyester | Polyester | Polyester |
| Body dimensions (l x w [depth] x h (mm)) | 187 x 60 x 127 | 99 x 50 x 172 | 140 x 66 x 152 | 154 x 76 x 72 | 154 x 76 x 72 | 121 x 42 x 42 | 49 x 40 x 16 | 121 x 42 x 42 | 95 x 30 x 33 | 69 x 34 x 16 | 90 x 64 x 30 |
| Environmental sealing | NEMA 1; IP54 | NEMA 1, 4, 13; IP67 | NEMA 1, 4, 12, 13; IP67 | NEMA 1, 3, 4, 13; IP67 | NEMA 1, 3, 4, 12, 13; IP67 | NEMA 1, 4, 12, 13; IP66 & IP67 | IP66 | NEMA 1, 4, 12, 13; IP67 | NEMA 1, 4X (indoor only), 12, 13; IP66/67 | IP67 | NEMA 1, 4X (indoor only), 12, 13; IP67 |
| Operating temperature | -40 °C to 85 °C | -40 °C to 80 °C | -40 °C to 80 °C | 1 °C to 70 °C | -40 °C to 70 °C | -25 °C to 85 °C | 0 °C to 70 °C (-40 °C optional) | -25 °C to 85 °C | -25 °C to 85 °C | -25 °C to 85 °C | -25 °C to 70 °C |
| Circuits | 2NC/2NO 3NC/1NO 4NC | 1NC/1NO 2NC/2NO 3NC/1NO 4NC | 1NC/1NO 2NC/2NO 3NC/1NO 4NC | 1NC 1NC/1NO 2NC 1NO/3NC 2NO/2NC | 1NC/1NO 1NC/1NO BBM 1NC/1NO MBB 2NC 2NC/2NO 4NC slow 2NC/1NO BBM 2NC/2NO BBM 3NC/1NO BBM | 1NC/1NO 1NC/1NO BBM 1NC/1NO MBB 2NC 2NC/2NO 4NC slow 2NC/1NO BBM 2NC/2NO BBM 3NC/1NO BBM | 1NC/1NO BBM 1NC/1NO MBB 1NC | 1NC/1NO snap 2NC/2NO snap 1NC/1NO BBM 1NC/1NO MBB 2NC/1NO BBM 2NC/2NO BBM 3NC/1NO BBM 2NC 4NC | 1NC/1NO snap 1NC/1NO BBM 2NC slow | 1NC/1NO BBM 2NC | 2NC/1NO slow 3NC Slow |
| Electrical | 10A th AC15, A300 DC13, Q300 | 10A th AC15, A300 DC13, Q300 | 10A th AC15, A300 DC13, Q300 | 10A th 24 Vdc, 250 Vdc 120 Vac, 240 Vac, 600 Vac | 10A th AC15, A300/A600; DC13, Q300 | 10A th AC15, A300/A600; DC13, Q300 | 10A th AC15, B300; DC13, R300 | 10A th AC15, A300/A600; DC13, Q300 | 10A th AC15, A300/A600; DC13, Q300 | 5A/2A th AC15, A300; DC13, Q300 | 10A th AC15, A600; DC13, Q300 |
| Positive opening NC contacts | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes |
| Connection | Conduit | Conduit | Conduit | Conduit | Conduit | Conduit | Pre-Cabled/Connector | Conduit/Connector | Conduit | Pre-Cabled | Conduit |
| Contacts | Silver | Silver, Gold | Silver, Gold | Silver, Gold | Silver, Gold | Silver, Gold | Silver | Silver, Gold | Silver | Silver, Gold | Silver |
| Hazardous approvals | - | - | - | NEMA 7, Class I Div 1 & 2 Groups B, C, D NEMA 9, Class II Div 1 & 2 Groups E, F, G | Class I (Flammable Gas) Div 1 & 2, Groups B, C, D Class II (Combustible Dust) Div 1 & 2, Groups E, F, G Class III (Combustible Fibers and Filings) Div 1 & 2 ATEX, IEC Ex, INMETRO II 2GD Exd IIC T6 Gb Ext III C IP6X T85°C Db (Tamb -40°C to 70°C) | - | - | - | - | - | - |

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004794-2-EN | 2 | 04/20
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