













# MICRO SWITCH Safety Switch Comparison



Design	Cable Pull			Mechanical Actuation				Key Actuation				
Series	1CPS	2CPS	CLSX	GSX	GSA	GSS Hinge	924/24CE	GKR/L	GK	GKE	GKM	GKN
												
<b>Typical applications</b>	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				
<b>Certifications</b>	UL, CSA, CE, SIL3	UL, CSA, CE, SIL3	UL, CSA	cULus, CE, IEC Ex, INMETRO, KOSHA, SIL3	UL, CSA, CE, SIL 3	UL, CSA, CE, SIL 3	CE, cULus, SIL3	UL, CSA, CE, SIL 3	UL, CSA, CE, SIL 3	cULus, CE, SIL3	UL, CSA, CE, SIL3	cULus, CE, CCC, SIL3
<b>Mounting centers (mm)</b>	152 x 72	139 x 104	120 x 30	120 x 30	30 x 60	20	25	100 x 100	30 x 60	20	22	40
<b>Housing</b>	Zinc	Zinc	Aluminium	Aluminium	Zinc	Polyester/Zinc	Zinc	Zinc	Zinc	Polyester	Polyester	Polyester
<b>Body dimensions (l x w [depth] x h (mm))</b>	178 x 99 x 65	152 x 165 x 84	154 x 76 x 72	154 x 76 x 72	121 x 42 x 42	83 x 30 x 30	49 x 40 x 16	110 x 110 x 43	121 x 42 x 42	95 x 30 x 33	69 x 34 x 16	90 x 64 x 30
<b>Environmental sealing</b>	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	NEMA 1, 4 (zinc housing only), 12, 13; IP66	IP66	NEMA 1, 4, 6P, 12, 13; IP68	NEMA 1, 4, 12, 13; IP67	NEMA 1, 4X (indoor only), 12, 13; IP66/67	IP67	NEMA 1, 4X (indoor only), 12, 13; IP67
<b>Operating temperature</b>	-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	-25 °C to 85 °C	0 °C to 70 °C (-40 °C optional)	-25 °C to 40 °C	-25 °C to 85 °C	-25 °C to 85 °C	-25 °C to 85 °C	-25 °C to 70 °C
<b>Circuits</b>	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	1NO/1NC snap 2NC slow 4NC slow 2NC/2NO BBM 3NC/1NO BBM	1NC/1NO BBM 1NC/1NO MBB 1NC	2NC/2NO snap 1NC/1NO BBM 2NC/1NO BBM 2NC/2NO BBM 3NC/1NO BBM 2NC 4NC	1NC/1NO snap 2NC/2NO snap 1NC/1NO BBM 1NC/1NO MBB 2NC/1NO BBM 2NC/2NO 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
<b>Electrical</b>	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, A300/A600; DC13, Q300	10A th AC15, B300; DC13, R300	10A th AC15, A300; DC13, Q300	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
<b>Positive opening NC contacts</b>	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
<b>Connection</b>	Conduit	Conduit	Conduit	Conduit	Conduit	Conduit	Pre-Cabled/Connector	Conduit /Connector	Conduit /Connector	Conduit	Pre-Cabled	Conduit
<b>Contacts</b>	Silver, Gold	Silver, Gold	Silver, Gold	Silver, Gold	Silver, Gold	Silver, Gold	Silver	Silver, Gold	Silver, Gold	Silver	Silver, Gold	Silver
<b>Hazardous approvals</b>	-	-	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 Ex t IIIC IP6X T85°C Db (Tamb -40°C to 70°C)	-	-	-	-	-	-	-	-

**Honeywell Sensing and Internet of Things**  
 9680 Old Bailes Road  
 Fort Mill, SC 29707  
 800-582-4263  
 www.honeywell.com

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