
















MICRO SWITCH SAFETY SWITCH COMPARISON

DESIGN	CABLE PULL				MECHANICAL ACTUATION			KEY ACTUATION				NON-CONTACT			
SERIES	2CCP	1CPS	2CPS	CLSX	GSX	GSA	924CE	GK	GKE	GKM	GKN	FF2/FF3	FF5	FF6	FFS
															
Typical applications	Conveyor systems, perimeter guarding, packaging equipment, assembly lines				Position and drift detection, mechanical travel limits, machine tools, material handling, doors, apertures			Doors, apertures, safety interlock, cabinet power isolation, and guard detection				Non-contact switch designed to be tamper-proof, standalone safety switches used to switch relays, contacts, or safety relays directly			
Certifications	UL, cUL, CE, UKCA, SIL3	UL, CSA, CE, UKCA, SIL3	UL, CSA, CE, UKCA, SIL3	UL, CSA	cULus, CE, UKCA, IEC Ex, ATEX, INMETRO, KOSHA, SIL3	UL, CSA, CE, UKCA, SIL 3	UL, UKCA, CE, SIL3	UL, CSA, CE, UKCA, SIL 3	cULus, CE, UKCA, CCC, SIL3	UL, cUL, CE, UKCA, SIL3	cULus, CE, UKCA, CCC, SIL3	UL, CE, UKCA	cULus/UL, CE, UKCA	cULus/UL, CE, UKCA	UL, cUL, CE, UKCA
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	-	22	73	78
Housing	Aluminium	Zinc	Zinc	Aluminium	Aluminium	Zinc	Zinc	Zinc	Polyester	Polyester	Polyester	ABS	ABS, Stainless Steel	ABS, Stainless Steel	ABS
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	FF2: Ø 18 x 74 FF3: Ø 30 x 74	52 x 14 x 28	19 x 19 x 82,5	24 x 19 x 87
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	IP67	IP67	IP67 for switch and actuator	IP67 for switch and actuator
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	-10°C to 55°C	-25°C to 55°C	-25°C to 55°C	-25°C to 55°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	FF2: 1NC, 1NC/1NO FF3: 2NC, 2NC/1NO	2NC/1NO	1NC 1NC/1NO 2NC 2NC/1NO	1NC/1NO 2NC
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	2 A @ 230 Vac 1 A Ind/res @ 30 Vdc	300 mA @ 24 Vdc	ac style: 230 Vac/2 A dc style: 24 Vdc/1 A	120/230 Vac, 2 A 24 Vdc, 2 A
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	Pre-wired	Pre-wired	Pre-wired, Male M12	Pre-wired, Micro AC
Contacts	Silver	Silver, Gold	Silver, Gold	Silver, Gold	Silver, Gold	Silver, Gold	Silver	Silver, Gold	Silver	Silver, Gold	Silver	Mag. actuated	Mag. actuated	Mag. actuated	Mag. actuated
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 IIIC IP6X T85°C Db (Tamb -40°C to 70°C)	-	-	-	-	-	-	-	-	-	-
Sensing distance	-	-	-	-	-	-	-	-	-	-	-	FF2: 10 mm ON, 30 mm OFF FF3: 10 mm ON, 35 mm OFF	7 mm ON 17 mm OFF	10 mm ON 28 mm OFF	see datasheet

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