C&K GP Series Sealed Ultraminiature Pushbutton Switches

Features/Benefits

- Ultraminiature design saves space
- Process compatible, withstands most • soldering and washing processes
- Thru-hole and surface mount models • available
- Sealed construction—internal o-ring and epoxy base

Typical Applications

- Telecommunications and network equipment
- Computers and peripheral products
- Instrumentation •



Pushbuttor

Specifications

CONTACT RATING: 0.4 VA max. @ 20 V AC or DC max.

- MECHANICAL & ELECTRICAL LIFE: 40,000 make-and-break cycles at full load.
- CONTACT RESISTANCE: Below 50 m typ. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE: $10^9 \Omega$ min.

DIELECTRIC STRENGTH: 500 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

- SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging)
- DEGREE OF PROTECTION: IP57; Protection against harmful dust deposit, full-scale voltage protection, temporary immersion.
- PACKAGING: Surface mount switches standard in anti-static tape and reel packaging per EIA 481-3, see page A-74 for drawings and reel information.

- Materials
- HOUSING & BASE: Glass filled nylon 4/6, flame retardant, heat stabilized (UL 94V-0).
- ACTUATOR: Glass filled nylon 4/6, flame retardant (UL 94V-0) with standard internal o-ring seal.

SWITCH SUPPORT: Brass, tin plated.

MOVABLE CONTACT: Copper alloy, with gold plate over nickel plate.

STATIONARY CONTACTS (Thru-hole models): Copper alloy, with gold plate over nickel plate.

TERMINALS: Copper alloy, with tin-lead alloy over nickel plate.

TERMINAL SEAL: Epoxy/Urethane. All terminals insert molded.

NOTE: Materials listed above are general specifications. Specifications available for specific and custom switches, consult Customer Service Cente

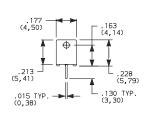
CAUTION: PC mounting layouts and pads as shown are designed to be compatible with the latest equipment and reflow techniques. Care should be taken in the design and location of PC lands to suit individual needs. Orientation relative to reflow direction may significantly impact solder joint integrity.

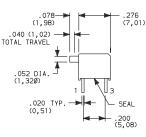
How To Order

Complete part numbers for GP Series Sealed Ultraminiature Pushbutton Switches are shown on pages A-71 thru A-73.

	SWITCH FUNCTION		
	POS.1	POS. 2	
PART NUMBER			SCHEMATIC
GP11MCKE	OFF	MOM.	1 • • 3
Conn. Terms.	OPEN	1-3	SPST
GP12MCKE	ON	MOM.	P 2 (COMM)
Conn. Terms.	2-1	2-3	NC 1 🖌 🔸 3 NO SPDT

MOM. = Momentary

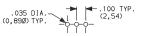




Terminal nos for reference only







GP11- omit center hole

A-71

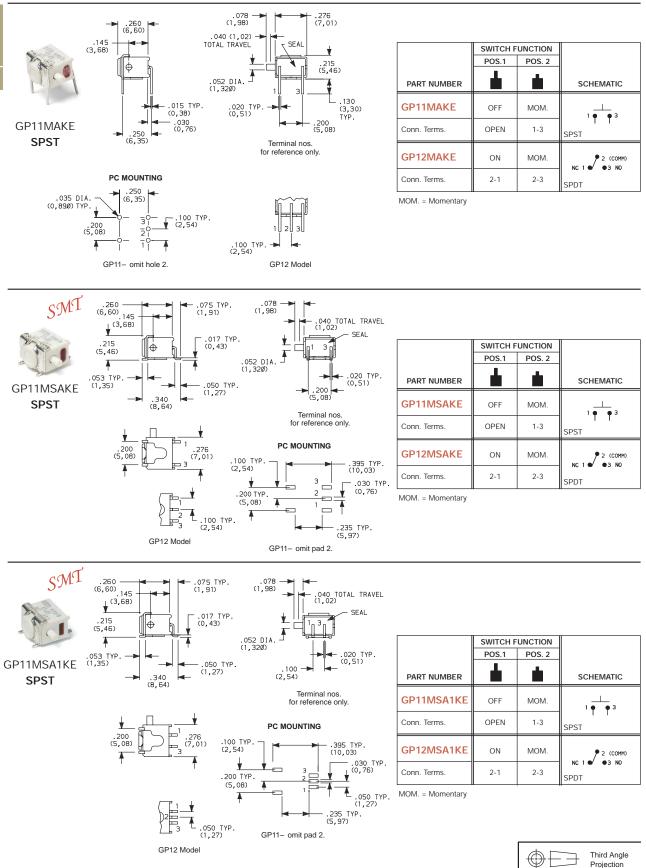






Cannon

C&K GP Series Sealed Ultraminiature Pushbutton Switches

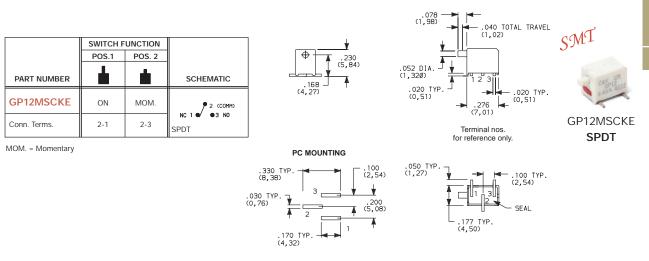


> ITT Industries

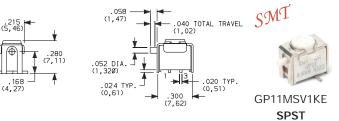
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Dimensions are shown: IN (mm) Dimensions subject to change www.ittcannon.com

C&K GP Series Sealed Ultraminiature Pushbutton Switches

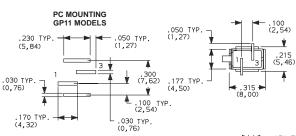


NOTE: Recommended for infrequent use applications only For increased switch mounting strength, order, SV1 termination style with support bracket (see next page).

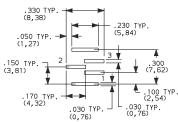


SWITCH FUNCTION POS.1 POS. 2 PART NUMBER SCHEMATIC **GP11MSV1KE** OFF MOM 1 🛉 **9**3 OPEN 1-3 Conn. Terms. SDST **GP12MSV1KE** ON MOM 2 (COMM) NC 1 •3 NO Conn. Terms. 2-1 2-3 SPDT

MOM. = Momentary







A-73

.050 TYP. (1, 27)

GP12 Model

Terminal nos. for reference only.



Dimensions are shown: IN (mm) Dimensions subject to change -Y-Y

A Pushbutton

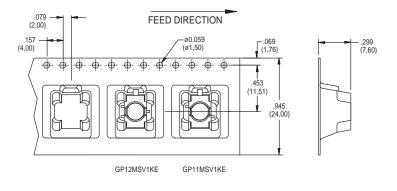


Cannon

TAPE & REEL

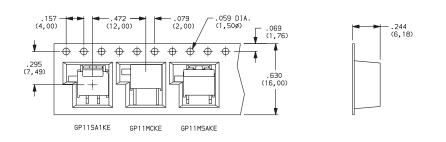
For part numbers GP11MSV1KE, GP12MSV1KE

REEL INFORMATION			
OUTSIDE DIAMETER	13.00 (330,0)		
PILOT HOLE	.512 (13,0)		
QUANTITY PER REEL	600		



For part numbers GPXXSA1KE, GPXXMCKE, GPXXMSAKE

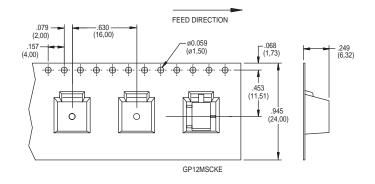
REEL INFORMATION		
OUTSIDE DIAMETER	13.00 (330,0)	
PILOT HOLE	.512 (13,0)	
QUANTITY PER REEL	600	



FEED DIRECTION

For part numbers GP12MSCKE

REEL INFORMATION		
OUTSIDE DIAMETER	13.00 (330,0)	
PILOT HOLE	.512 (13,0)	
QUANTITY PER REEL	600	





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 \bigcirc Projection Dimensions are shown: IN (mm)

Dimensions subject to change

Third Angle