Plunger can be custom designed

SMT switch adapted for low current

Only actuate 1 direction at a time

Provides logic level control

RoHS compliant

Typical Applications

- Seat adjustments
- Industrial controls
- Mirror adjustment
- Home entertainment
- Multi-function steering wheel



Construction

FUNCTION: QSA2: 2 way switch

QSA4: 4 way switch

TYPE OF SWITCH: QSA2: 2x make contacts

QSA4: 4x make contacts

FOOTPRINT: 23 mm x 18 mm, operating direction diagonal HEIGHT: Housing: 9 mm, total height: 22,4 mm (H1 version)

PINS: Solder pins, SMD

ATTACHMENT: Snap-in pegs provided to help secure and

locate switches

ACTUATOR: ø3.5 mm with button fastener

Mechanical

OPERATION DIRECTION: In X-Y direction along the diagonal

axis of the switch. Rotation point is 5,5 mm over the PCB surface.

TRAVEL: (H1 G8 version) Travel of the actuator measured on an

axis parallel to and 19 mm above PCB.

switch point/stop (4,0 N force) 1.5 ± 0.4 mm / 2.0+0.3 mm

ACTUATION ANGLE: G8 version

To switch point / stop (4,0 N force)

6.5° / 8.5°

ACTUATION FORCE: 3,5 \pm 1 N TACTILE EFFECT: 15%

LIFE: 100,000 cycles in each direction

(≤ 20 N force)

Mechanical (continued)

RETURN FORCE: $0.8 \pm 0.3N$

ACTUATION STRENGTH: >50 N, parallel to PCB

>100 N, vertical (push) to PCB >50 N traction (pull) force

Electrical

SWITCHING POWER MAX: 0,20 VA

MIN / MAX SWITCHING VOLTAGE: (VDC) 20mV / 30 V MIN / MAX SWITCHING CURRENT: 1mA / 50mA

BOUNCE: < 1 ms

Environmental

OPERATING TEMPERATURE: -40°C to 85°C STORAGE TEMPERATURE: -40°C to 95°C

Process

AUTOMATIC SOLDERING: Reflow compatible per CECC00802

Other Data

CONTACT MATERIAL: Au on Ni layer

SOLDERING PINS: Au flash

HOUSING MATERIAL: Thermoplastic

NOTE: For the latest information regarding RoHS compliance, please go to:

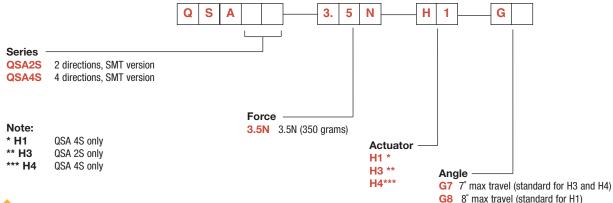
www.ittcannon.com/rohs

Note: Specifications listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Note: Product to be offered as compatible with the lead free soldering profile on Q3-2006.

How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.





Dimensions are shown: mm (inch) Specifications and dimensions subject to change

QSA Series Silent Navigation Switch for SMT

QSA2S H3





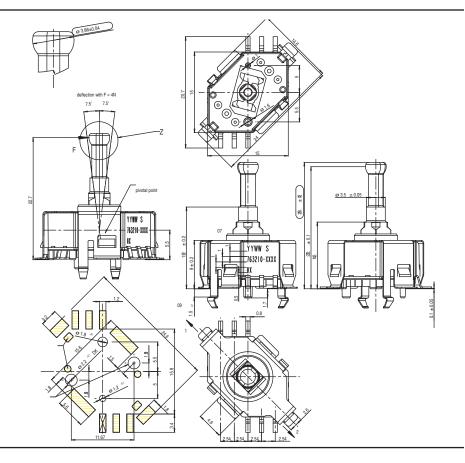
yellow surface:

terminals and top plate fixations to be soldered with Infrared process

green surface:

red hole:

bearing point -to keep free from PCB lines snap-in pegs and positioning pins to get through the PCB but not to be soldered



QSA4S H1

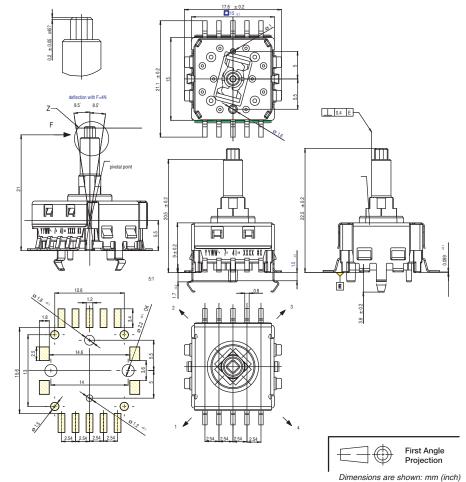


terminals and top plate yellow surface: fixations to be soldered

green surface:

red hole:

with Infrared process bearing point -to keep free from PCB lines snap-in pegs and positioning pins to get through the PCB but not





QSA Series Silent Navigation Switch for SMT

