Features/Benefits

- Excellent tactile feel
- 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

Navigation O

FUNCTION:	QSA2: 2 way switch QSA4: 4 way switch QSA2: 2x make contacts QSA4: 4x make contacts	
TYPE OF SWITCH:		
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) 1.2 ± 0.4 mm / $1.9+0.5$ mm
ACTUATION ANGLE:		G8 version
		To switch point / stop (4,0 N force) 6.5° / 8.5°
ACTUATION FORCE:		3,3 ± 1 N
TACTILE EFFECT:		15%
LIFE:		30,000 cycles in each direction (≤ 20 N force)

For further information and test reports concerning life, please consult factory.

Mechanical (continued)

	RETURN FORCE: ACTUATION STRENGTH:	0,8 ± 0,3N >50 N, parallel to PCB >100 N, vertical (push) to PCB >50 N traction (pull) force			
aiam)	Electrical				
sion)	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 TEMPERATUR				
	Process				
	AUTOMATIC SOLDERING: Reflow compatible per CECC00802				

Other Data

CONTACT MATERIAL: Au on Ni layer SOLDERING PINS: Au flash HOUSING MATERIAL: Thermoplastic

Packaging

Trays 80 pieces.

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

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.



QSA2S H3







QSA4S H1







Specifications and dimensions subject to change

QSA Series Silent Navigation Switch for SMT

QSA4S H4









Dimensions are shown: mm Specifications and dimensions subject to change

