

SI-LS83

Non-Locking Plastic Safety Interlock Switches



- Mechanically coded actuators minimize intentional tampering or defeat
- 83 mm plastic style switch
- Rotating head requires no tools
- Limit switch style
- Actuator engagement from four side or four top positions

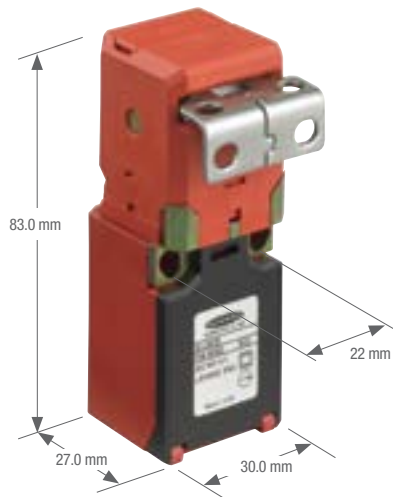
SI-LS83 Plastic Style Switches (kits), 83 mm

Actuator Type		Interlock		Kit Model*
SI-QS-SSA-2 Straight Rigid In-Line		SI-LS83D	1 NC & 1 NO	SI-LS83SD
SI-QS-SSA-3 Rigid In-Line		SI-LS83D	1 NC & 1 NO	SI-LS83SRAD
 SI-QS-SSU Flexible In-Line		SI-LS83D	1 NC & 1 NO	SI-LS83MRFD
SI-QS-SSA-2 Straight Rigid In-Line		SI-LS83E	2 NC	SI-LS83SE
SI-QS-SSA-3 Rigid In-Line		SI-LS83E	2 NC	SI-LS83SRAE
 SI-QS-SSU Flexible In-Line		SI-LS83E	2 NC	SI-LS83MRFE
Multi-Directional				

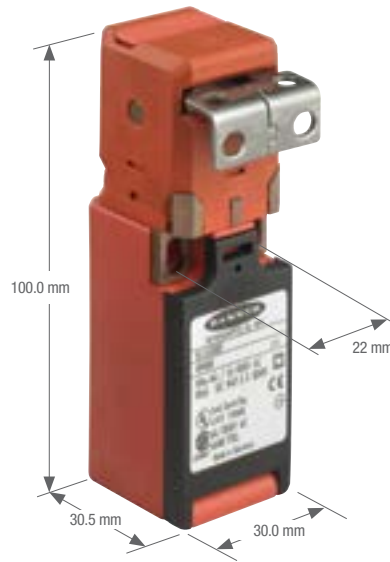
NC = Normally Closed Contact, NO = Normally Open Contact

* A kit contains an interlock and actuator. Individual interlocks (without actuator) are for replacement purposes only.
Contact factory for integral quick-disconnect (QD) and pigtail QD options.

Flat-Pack Style Switches



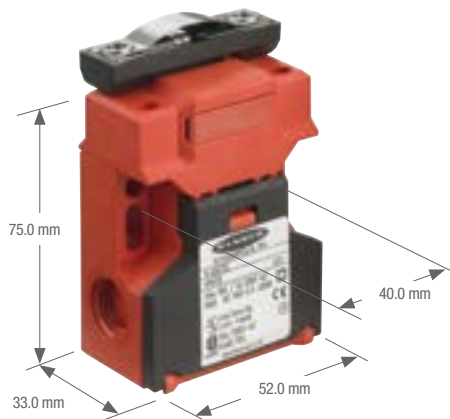
SI-LS83 Models



SI-LS100 Models

(both models shown with right-angle rigid in-line actuator)

Flat-Pack Style Switches



SI-QS75 Models



SI-QS90 Models

(both models shown with rigid in-line actuator)

SI-LS83 and SI-LS100 Plastic Style Switches Specifications

Contact Rating	10A @ 24 V ac, 10A @ 110 V ac, 6A @ 230 V ac, 6A @ 24 V dc 2.5 kV max. transient tolerance NEMA A300 P300																
European Rating	Utilization categories: AC15 and DC13 (IEC 60947-5-1) Switches with 1 & 2 contact pairs: U_i = 500V ac, I_{th} = 10A Switches with 3 contact pairs: U_i = 400V ac, I_{th} = 5A	<table border="1"> <thead> <tr> <th colspan="3">40-60 Hz</th> </tr> <tr> <th>U_i V</th><th>I_i/AC-15 A</th><th>I_i/DC-13 A</th></tr> </thead> <tbody> <tr> <td>24</td><td>10</td><td>6</td></tr> <tr> <td>110</td><td>10</td><td>1</td></tr> <tr> <td>230</td><td>6</td><td>.4</td></tr> </tbody> </table>	40-60 Hz			U_i V	I_i /AC-15 A	I_i /DC-13 A	24	10	6	110	10	1	230	6	.4
40-60 Hz																	
U_i V	I_i /AC-15 A	I_i /DC-13 A															
24	10	6															
110	10	1															
230	6	.4															
Contact Material	Silver-nickel alloy																
Maximum Switching Speed	30 operations per minute																
Maximum Actuator Speed	1 m/second																
Mechanical Life	1 million operations																
Minimum Actuator Engagement Radius	In-line actuators: 150 mm Flexible actuators: 50 mm in all directions																
Actuation Extraction Force	12 N																
Short Circuit Protection	6 amp Slow Blow, 10 amp Fast Blow. Recommended external fusing or overload protection.																
Wire Connections	Stranded and solid: 20 AWG (0.5 mm ²) to 18 AWG (1.0 mm ²) for one wire Stranded: 20 AWG (0.5 mm ²) to 18 AWG (1.0 mm ²) for two wires																
Cable Entry	M20 x 1.5 for SI-LS100 and M16 x 1.5 for SI-LS83 threaded entrance. Adapter supplied to convert to ½"- 14 NPT threaded entrance.																
Construction	Glass fiber-reinforced thermoplastic UL94-VO rating																
Environmental Rating	IP65 NOTE: Addition of a No. 3 x ¼" screw (max) to the wiring access door increases sealing to IP67; NEMA 4X																
Operating Conditions	Temperature: -30 to +80 °C																
Weight	SI-LS83 models: 0.12 kg SI-LS100 models: 0.13 kg																
Certifications	  																
Contact Configuration and Switching Diagrams	SI-LS100 models: SD011 (p. 673) SI-LS83 models: SD012 and SD013 (p. 673)																