

Compact Plastic Flat Pack and Limit Switch Styles

- Mechanically coded actuators use two independent operating elements to minimize intentional tampering or defeat.
- Rotating head requires no tools.
- Four standard actuators are available, as well as an optional high-extraction-force actuator.
- IEC IP65 switch housing rating increases to IEC IP67 with addition of a screw to the wiring chamber door.



PAGE 182

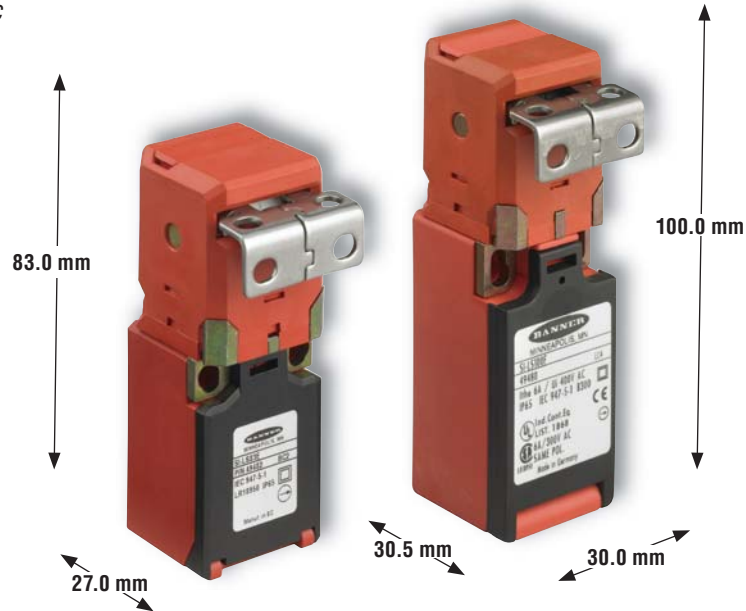


PAGE 224

SI-LS83 and SI-LS100 Models Page 149
 SI-QS75 and SI-QS90 Models 150

SI-LS83 and SI-LS100 Plastic Style Switches

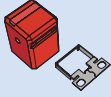
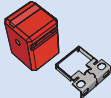

- Low profile for confined spaces
- Tough glass-reinforced thermoplastic housing
- Limit switch design (EN 50047)
- In-line or right-angle actuator
- Actuator engagement from four side or four top positions
- Insulated device on all models (IEC 60947-5-1)
- Positive opening safety contacts (IEC 60947-5-1) ⊕



SI-LS83 Models SI-LS100 Models
 (both models shown with Right-Angle Rigid Inline Actuator)

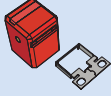
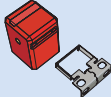

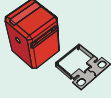
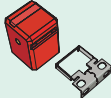



SI-LS100 Plastic Style, 100 mm

Kits			Contact(s)	Contact Config. & Switch Diagram	Data Sheet
Kit Model*	Actuator Type	Interlock			
SI-LS100SF	SI-QS-SSA-2 Straight Rigid In-Line 	SI-LS100F	2 NC & 1 NO	SD010 (Page 241)	59622
SI-LS100SRAF	SI-QS-SSA-3 Rigid In-Line 	SI-LS100F			
SI-LS100MRFF	 SI-QS-SSU Flexible In-Line	SI-LS100F			

SI-LS83 Plastic Style, 83 mm



Kits			Contact(s)	Contact Config. & Switch Diagram	Data Sheet
Kit Model*	Actuator Type	Interlock			
SI-LS83SD	SI-QS-SSA-2 Straight Rigid In-Line 	SI-LS83D	1 NC & 1 NO	SD011 (Page 241)	59622
SI-LS83SRAD	SI-QS-SSA-3 Rigid In-Line 	SI-LS83D			
SI-LS83MRFD	 SI-QS-SSU Flexible In-Line	SI-LS83D			
SI-LS83SE	SI-QS-SSA-2 Straight Rigid In-Line 	SI-LS83E	2 NC	SD012 (Page 241)	
SI-LS83SRAE	SI-QS-SSA-3 Rigid In-Line 	SI-LS83E			
SI-LS83MRFE	 SI-QS-SSU Flexible In-Line	SI-LS83E			

 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.

SAFETY INTERLOCK SWITCHES

PICO-GUARD SWITCHES

MAGNET STYLE SWITCHES

HINGE STYLE SWITCHES

PLASTIC STYLE SWITCHES

METAL STYLE SWITCHES

LOCKING STYLE SWITCHES

SAFETY INTERLOCK SWITCHES

Compact Plastic Style Safety Switches

SI-LS83 and SI-LS100 Plastic Style Switches Specifications

Contact Rating	10A @ 24V ac, 10A @ 110V ac, 6A @ 230V ac 6A @ 24V 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>$I_{th}/AC-15$ A</th> <th>$I_{th}/DC-13$ 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	$I_{th}/AC-15$ A	$I_{th}/DC-13$ A	24	10	6	110	10	1	230	6	.4
40-60 Hz																		
U_i V	$I_{th}/AC-15$ A	$I_{th}/DC-13$ 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. Adaptor supplied to convert to ½"- 14 NPT threaded entrance.																	
Construction	Glass fiber-reinforced thermoplastic UL94-VO rating																	
Environmental Rating	IEC IP65 Note: Addition of a No. 3 x ¼" screw (max) to the wiring access door increases sealing to IEC IP67; NEMA 4X																	
Operating Temperature	-30° to +80° C																	
Weight	SI-LS83 models: 0.12 kg SI-LS100 models: 0.13 kg																	
Certifications	For a list of certifications see page 238.																	
Contact Configuration and Switching Diagrams	SI-LS100 models: SD010 (p. 241) SI-LS83 models: SD011 and SD012 (p. 241)																	