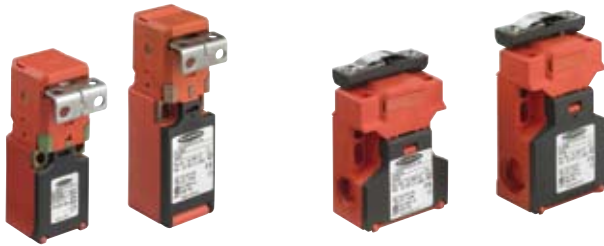


Compact Plastic Flat Pack and Limit Switch Styles

- 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 adapter.
- Housing is constructed of glass reinforced thermoplastic with plated steel actuator.
- IP65 switch housing rating increases to IP67 with addition of a screw to the wiring chamber door.
- Design meets positive opening requirements for safety interlocks (IEC 60947-5-1) .



ACCESSORIES
page
597



SI-LS83 and SI-LS100

Page 578

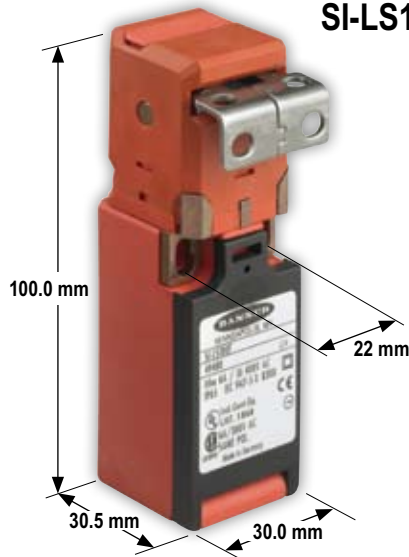
- Low profile for confined areas
- Limit switch design (EN 50047)
- In-line or right-angle actuator
- Actuator engagement from four side or four top positions
- Insulated device on all models (IEC 60947-5-1) .

SI-QS75 and SI-QS90

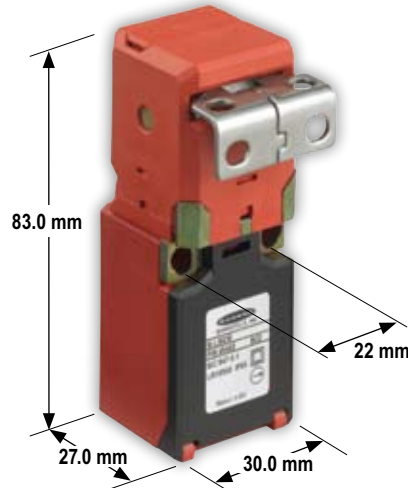
Page 580

- Flat-pack design for limited space requirements
- Actuator engagement from front, back, or either of two top positions
- Insulated device on all models (IEC 60947-5-1) .

SI-LS100 and SI-LS83 Plastic Style Switches



SI-LS100 Models

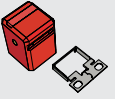
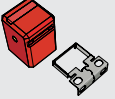
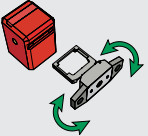


SI-LS83 Models

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



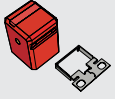
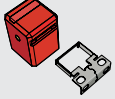
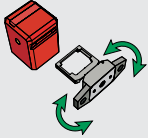
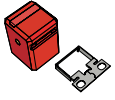
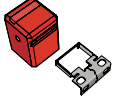
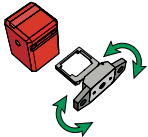
SI-LS100 Plastic Style Switches, 100 mm

Kits				Contact(s)	Contact Config. & Switch Diagram
Actuator Type		Interlock	Kit Model*		
SI-QS-SSA-2 Straight Rigid In-Line		SI-LS100F	SI-LS100SF	2 NC & 1 NO	SD011 (Page 593)
SI-QS-SSA-3 Rigid In-Line		SI-LS100F	SI-LS100SRAF		
 SI-QS-SSU Flexible In-Line		SI-LS100F	SI-LS100MRFF		

Photoelectrics
Sensors
Fiber Optic
Sensors
Special Purpose
Sensors
Measurement &
Inspection Sensors
Vision
Wireless
Lighting &
Indicators
Safety
Light Screens
Safety
Laser Scanners
Fiber Optic
Safety Systems
Safety Controllers &
Modules
Safety Two-Hand
Control Modules
**Safety Interlock
Switches**
Emergency Stop &
Stop Control

ACCESSORIES
page
597

SI-LS83 Plastic Style Switches, 83 mm

Kits				Contact(s)	Contact Config. & Switch Diagram
Actuator Type		Interlock	Kit Model*		
SI-QS-SSA-2 Straight Rigid In-Line		SI-LS83D	SI-LS83SD	1 NC & 1 NO	SD012 (Page 593)
SI-QS-SSA-3 Rigid In-Line		SI-LS83D	SI-LS83SRAD		
 SI-QS-SSU Flexible In-Line		SI-LS83D	SI-LS83MRFD		
SI-QS-SSA-2 Straight Rigid In-Line		SI-LS83E	SI-LS83SE	2 NC	SD013 (Page 594)
SI-QS-SSA-3 Rigid In-Line		SI-LS83E	SI-LS83SRAE		
 SI-QS-SSU Flexible In-Line		SI-LS83E	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.

INTERLOCK
SWITCHES
FIBER OPTIC
MAGNET
HINGE
COMPACT PLASTIC
COMPACT METAL
LOCKING STYLE

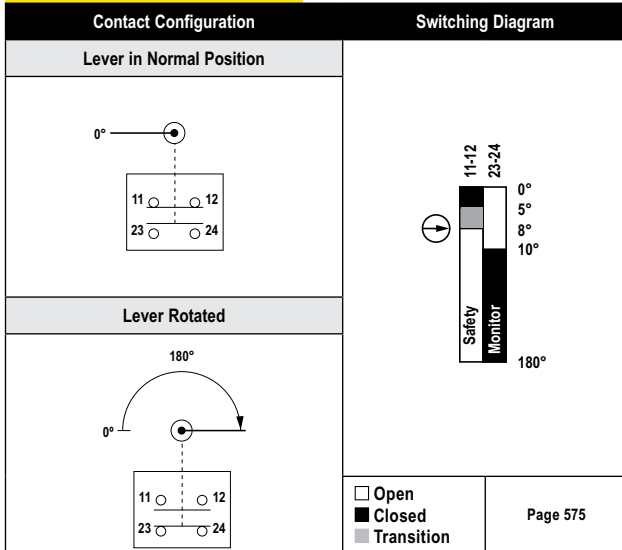
INTERLOCK SWITCHES

SI-LS83 and SI-LS100 Plastic Style Switches Specifications

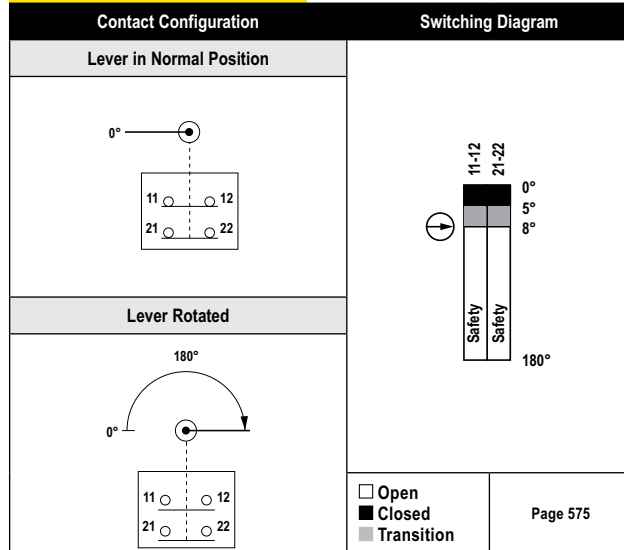
Contact Rating	10A @ 24V ac, 10A @ 110V ac, 6A @ 230V ac, 6A @ 24V dc 2.5 kV max. transient tolerance NEMA A300 P300																
European Rating	Utilization categories: AC15 and DC13 (IEC 60947-5-1) Switches with 1 & 2 contact pairs: $U_i = 500V$ ac, $I_{th} = 10A$ Switches with 3 contact pairs: $U_i = 400V$ ac, $I_{th} = 5A$	<table> <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> <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> </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. Adapter supplied to convert to 1/2"- 14 NPT threaded entrance.																
Construction	Glass fiber-reinforced thermoplastic UL94-VO rating																
Environmental Rating	IP65 Note: Addition of a No. 3 x 1/4" 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	     AUXILIARY DEVICE LISTED																
Contact Configuration and Switching Diagrams	SI-LS100 models: SD011 (p. 593) SI-LS83 models: SD012 and SD013 (pp. 593-594)																

Contact/Switching Diagrams

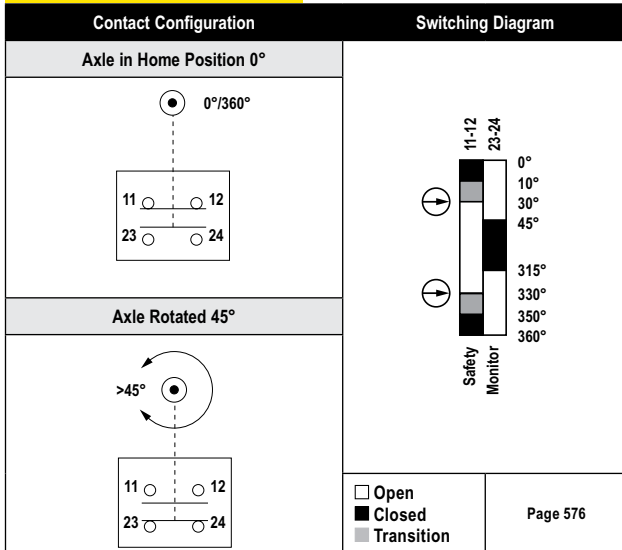
SD007 - SI-LS31HGLD Series



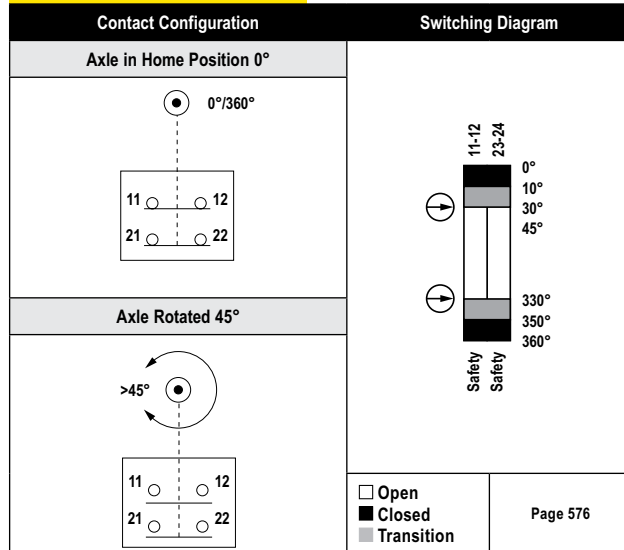
SD008 - SI-LS31HGLE Series



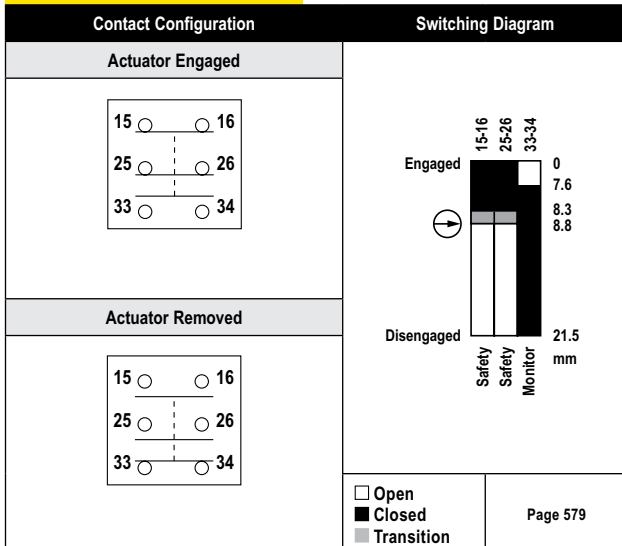
SD009 - SI-LS31RTD Series



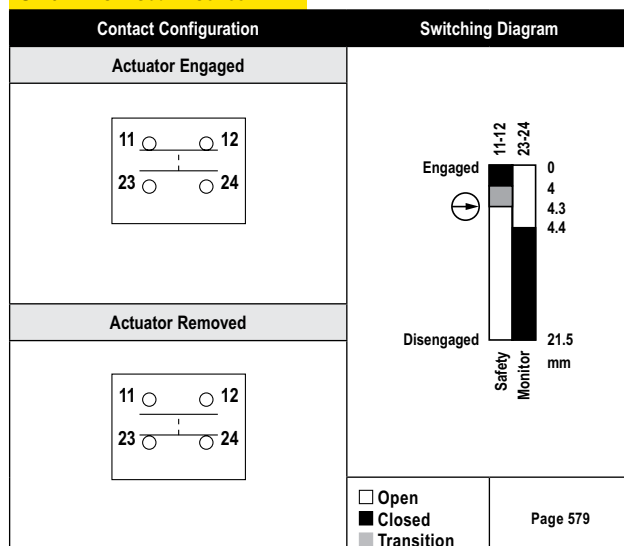
SD010 - SI-LS31RTE Series



SD011 - SI-LS100 Series



SD012 - SI-LS83..D Series



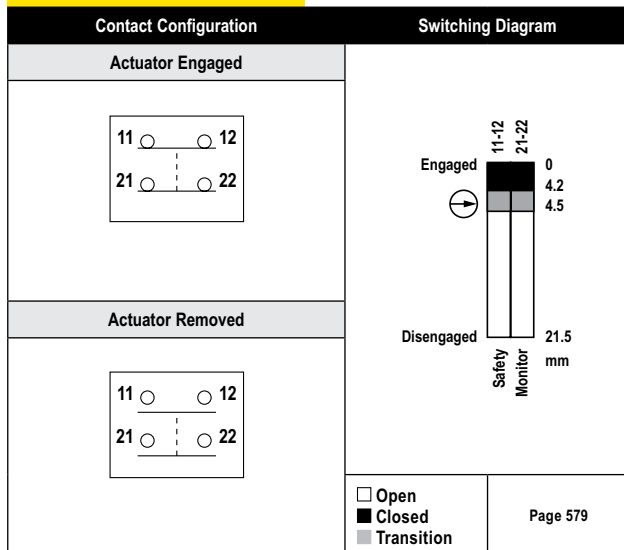
Photoelectrics
 Sensors
 Fiber Optic
 Sensors
 Special Purpose
 Sensors
 Measurement &
 Inspection Sensors
 Vision
 Wireless
 Lighting &
 Indicators
 Safety
 Light Screens
 Safety
 Laser Scanners
 Fiber Optic
 Safety Systems
 Safety Controllers &
 Modules
 Safety Two-Hand
 Control Modules
**Safety Interlock
 Switches**
 Emergency Stop &
 Stop Control

**INTERLOCK
 SWITCHES**
 FIBER OPTIC
 MAGNET
 HINGE
 COMPACT PLASTIC
 COMPACT METAL
 LOCKING STYLE

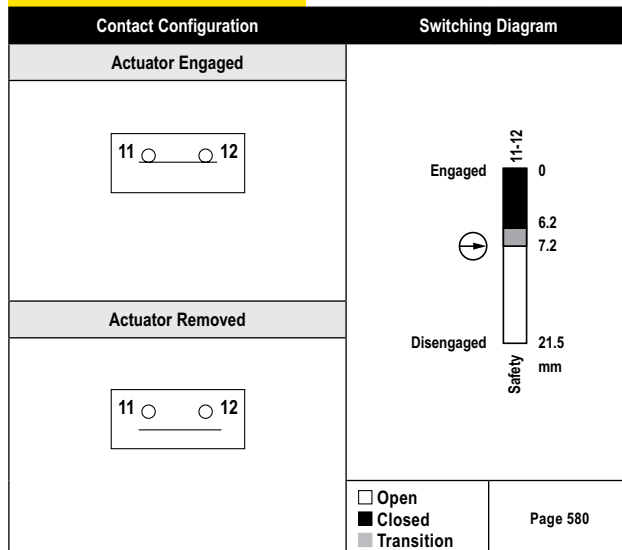
More
 on next
 page

Contact/Switching Diagrams

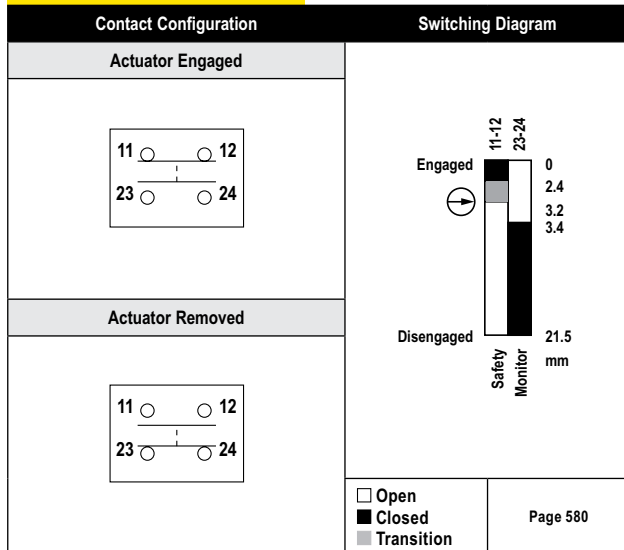
SD013 - SI-LS83..E Series



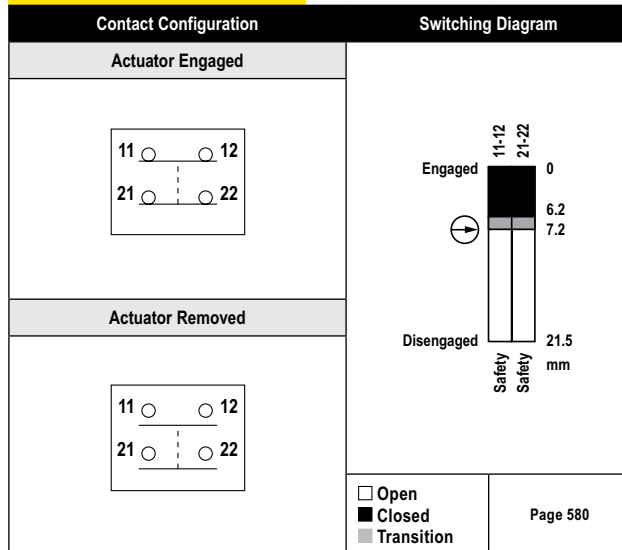
SD014 - SI-QS75 Series



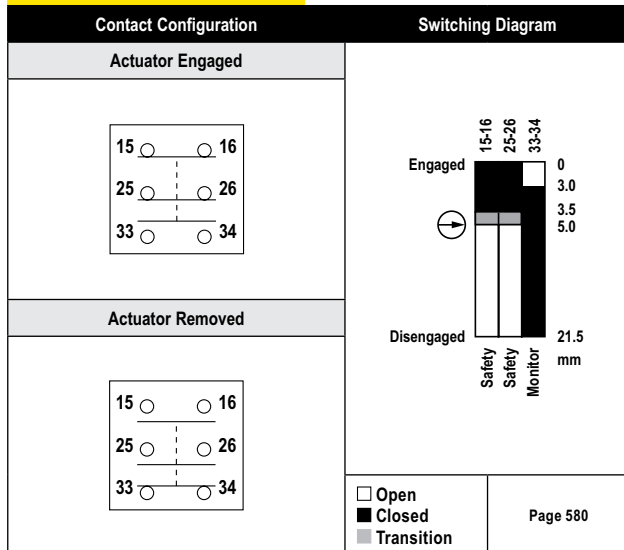
SD015 - SI-QS90MD Series



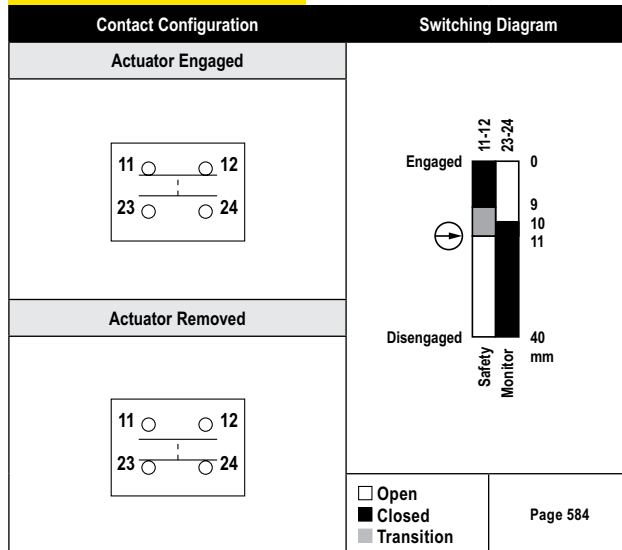
SD016 - SI-QS90ME Series



SD017 - SI-QS90MF Series



SD018 - SI-LM40MKHD Series



More on next page