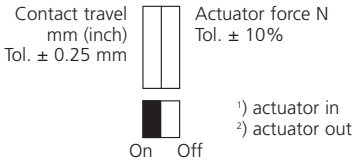
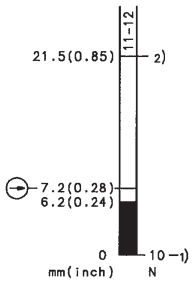
Plastic-bodied interlocking safety switch

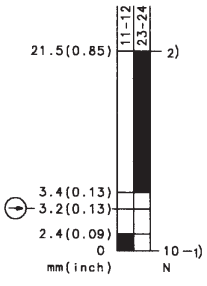
SKC
SK

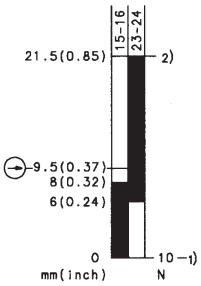
Protection class IP 65

Designation	SKC-A1Z M	SK-U1Z M	SK-UV1Z M
Part number	**601.6169.039**	**601.6119.016**	**601.6139.034**
Circuit diagram			
⊖ Forced disconnect to IEC 947-5-1 chapter 3			
Za: not galvanically separated contacts			
Zb: galvanically separated contacts	⊖ Zb	⊖ Zb	⊖ Zb
Slow make & break/snap-action	●/–	●/–	●/–
Internal seal (iw)/external seal (w)	iw	iw	iw



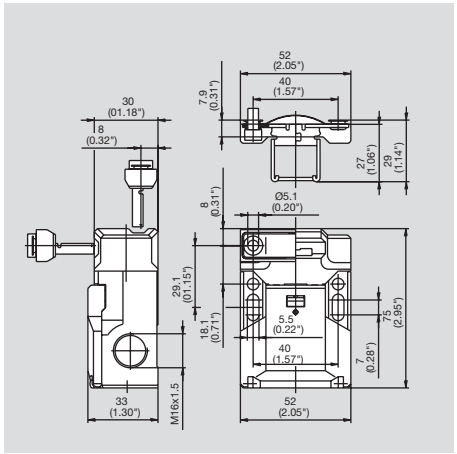


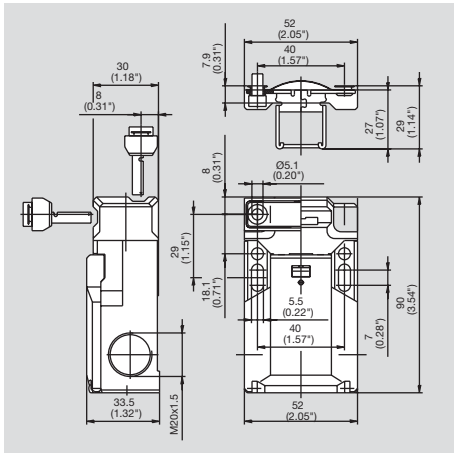


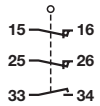
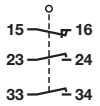
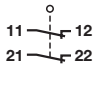
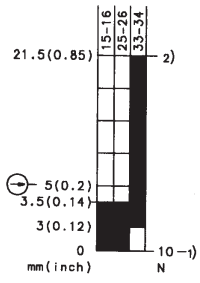
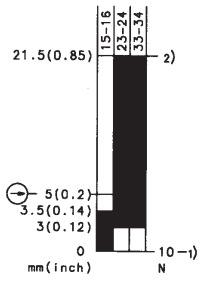
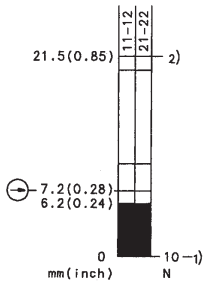


Voltage	max.	500 V AC	500 V AC	500 V AC
Permanent current	max.	10 A	10 A	10 A
In-rush current complies with standards IEC 947-5-1 AC 15/DC 13		●	●	●
Switching frequency	max.	30/min.	30/min.	30/min.
Mechanical life – number of switching actions		1 x 10^6	1 x 10^6	1 x 10^6
Operating temperature	min./max.	–30 °C/+80 °C –22 °F/+176 °F	–30 °C/+80 °C –22 °F/+176 °F	–30 °C/+80 °C –22 °F/+176 °F
Approvals		BG, UL, CSA	BG, UL, CSA	BG, UL, CSA
Weight		0.11 kg/0.24 lb	0.13 kg/0.29 lb	0.13 kg/0.29 lb
Delivery: ex-stock/built to order		●/–	●/–	●/–

All dimensions in mm (inch)





SK-UV15Z M	SK-UV16Z M	SK-A2Z M
601.6169.026	**601.6169.027**	**601.6169.036**
		
⊖ Zb	⊖ Zb	⊖ Zb
●/–	●/–	●/–
iw	iw	iw
		
400 V AC	400 V AC	500 V AC
6 A	6 A	10 A
●	●	●
30/min.	30/min.	30/min.
1 x 10^6	1 x 10^6	1 x 10^6
–30 °C/+80 °C	–30 °C/+80 °C	–30 °C/+80 °C
–22 °F/+176 °F	–22 °F/+176 °F	–22 °F/+176 °F
BG, UL, CSA	BG, UL, CSA	BG, UL, CSA
0.13 kg/0.29 lb	0.13 kg/0.29 lb	0.13 kg/0.29 lb
●/–	●/–	●/–

Actuator selection table

SKC/SK

Safety switch
DIN EN 60947-5-1

- ⊕ Forced disconnection of NC contacts
- Galvanically separated contacts according to Zb form

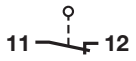
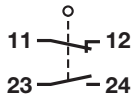
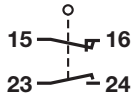
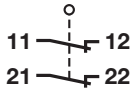
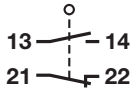
Approvals
- UL, CSA
- BG

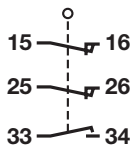
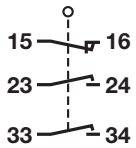
Actuator M

- Metal
- Stainless steel

Actuator P

- Thermoplastic
- Polyamide

Standard models Single & double poles	Actuator retention force	Contact diagram	Part number Designation	Part number Designation
SKC-A1Z	10N		**601.6169.039** SKC-A1Z M	**601.6169.054** SKC-A1Z P
SKC-A1Z F30	30N		○	○
SKC-A1Z Fi100	100N		**601.6169.003** SKC-A1Z Fi100 M	–
SK-U1Z	10N		**601.6119.016** SK-U1Z M	**601.6119.035** SK-U1Z P
SK-U1Z F30	30N		**611.6119.109** SK-U1Z F30 M	○
SK-U1Z Fi100	100N		**601.6119.001** SK-U1Z Fi100 M	–
SK-UV1Z	10N		**601.6139.034** SK-UV1Z M	○
SK-UV1Z F30	30N		○	○
SK-UV1Z Fi100	100N		○	–
SK-A2Z	10N		**601.6169.036** SK-A2Z M	○
SK-A2Z F30	30N		**601.6169.053** SK-A2Z F30 M	○
SK-A2Z Fi100	100N		**601.6169.024** SK-A2Z Fi100 M	–
SK-SU1Z	10N		○	○
SK-SU1Z F30	30N		○	○
SK-SU1Z Fi100	100N		○	–

Standard models Three poles	Actuator retention force	Contact diagram	Part number Designation	Part number Designation
SK-UV15Z	10N		**601.6169.026** SK-UV15Z M	○
SK-UV15Z F30	30N		**601.6169.061** SK-UV15Z F30 M	○
SK-UV15Z Fi100	100N		**601.6169.025** SK-UV15Z Fi100 M	–
SK-UV16Z	10N		**601.6169.027** SK-UV16Z M	○
SK-UV16Z F30	30N		○	○
SK-UV16Z Fi100	100N		○	–

○ Technically possible (on request)
– Not available

Actuator F

- Spring loaded to accomodate over-travel
- Stainless steel or polyamide

Part number	Part number
Designation	Designation
○	**601.6169.087**
	SKC-A1Z MRU
○	○
○	○
601.6119.074	**601.6119.084**
SK-U1Z PF	SK-U1Z MRU
○	○
○	○
○	○
○	○
○	○
○	**601.6169.085**
	SK-A2Z MRU
○	○
○	**601.6169.032**
	SK-A2Z Fi100 MRU
○	○
○	○
○	○

Part number	Part number
Designation	Designation
601.6169.063	**601.6169.086**
SK-UV15Z MF	SK-UV15Z MRU
○	○
○	○
○	○
○	○
○	○

Actuator MRU

- Adjustable horizontally & vertically
- Flexible
- Stainless steel
- Spring loaded to accomodate overtravel

Technical data
Standard models
single & double poles

Insulation voltage:
U_i = 500 V

Thermal constant current:
I_{th} = 10 A

Switching frequency:
Max. 30/min.

Mechanical life:
1 x 10^6 cycles

Operating temperature:
–30 °C/+80 °C
–22 °F/+176 °F

Weight:
0.13 kg/0.29 lbs

Technical data
Standard models
three poles

Insulation voltage:
U_i = 400 V

Thermal constant current:
I_{th} = 6 A

Switching frequency:
Max. 30/min.

Mechanical life:
1 x 10^6 cycles

Operating temperature:
–30 °C/+80 °C
–22 °F/+176 °F

Weight:
0.13 kg/0.29 lbs

- **Forced Ejection (FE):**
  The actuator mechanism is spring loaded to forcibly eject the actuator.
- **Actuator Retention (F 30, Fi 100)**
  This model retains the actuator with the indicated force in Newtons.
- **MRU Actuator:**
  This actuator is spring mounted to accommodate some misalignment as well as over travel.

Important note:

To ensure safety integrity, actuators should only be purchased together with the safety switch.