

Plastic-bodied
interlocking safety switch

SKC
SK

Protection class IP 65

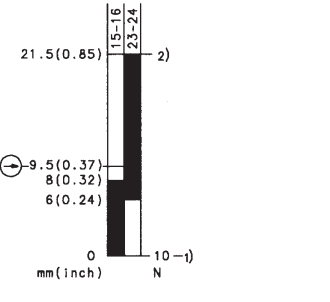
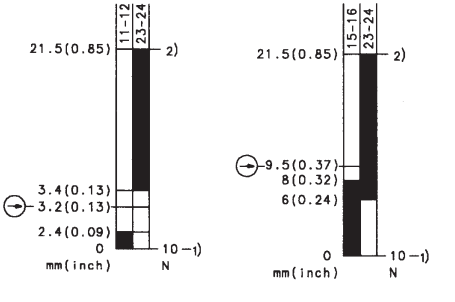
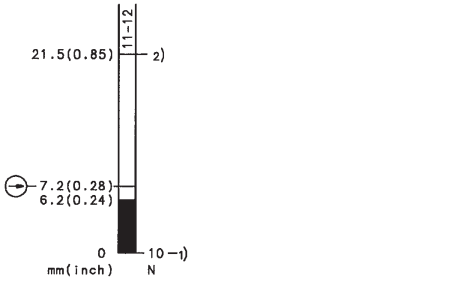
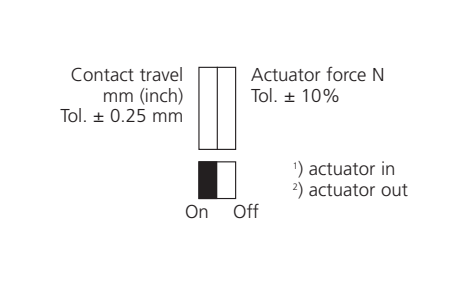


Designation
Part number
Circuit diagram
⊕ Forced disconnect to IEC 947-5-1 chapter 3
Za: not galvanically separated contacts
Zb: galvanically separated contacts
Slow make & break/snap-action
Internal seal (iw)/external seal (w)

SKC-A1Z M
601.6169.039
⊕ Zb
●/-
iw

SK-U1Z M
601.6119.016
⊕ Zb
●/-
iw

SK-UV1Z M
601.6139.034
⊕ Zb
●/-
iw



Voltage	max.
Permanent current	max.
In-rush current complies with standards	
IEC 947-5-1 AC 15/DC 13	
Switching frequency	max.
Mechanical life – number of switching actions	
Operating temperature	min./max.

500 V AC
10 A
●
30/min.
1 x 10 ⁶
-30 °C/+80 °C
-22 °F/+176 °F

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10 A
●
30/min.
1 x 10 ⁶
-30 °C/+80 °C
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500 V AC
10 A
●
30/min.
1 x 10 ⁶
-30 °C/+80 °C
-22 °F/+176 °F

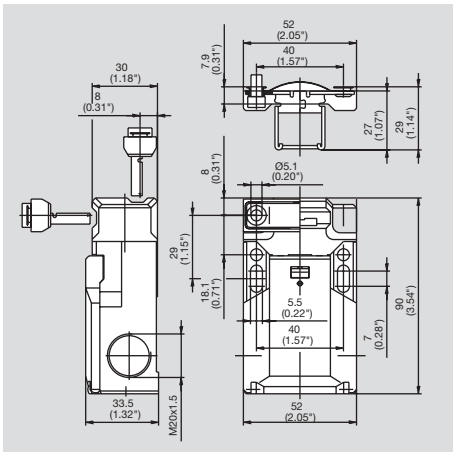
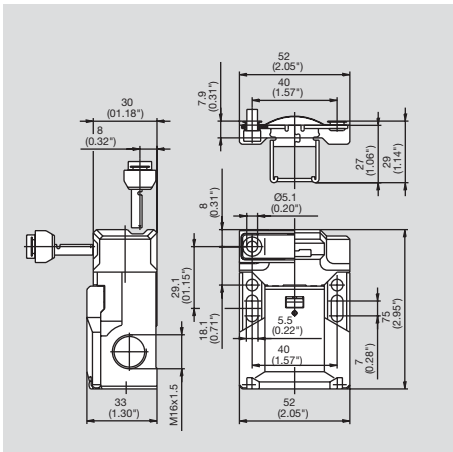
Approvals
Weight
Delivery: ex-stock/built to order

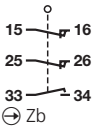
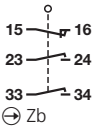
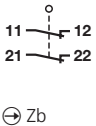
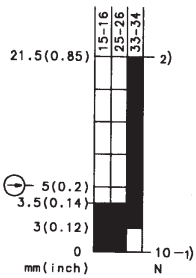
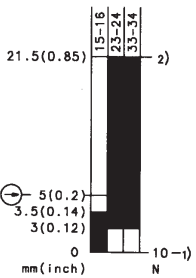
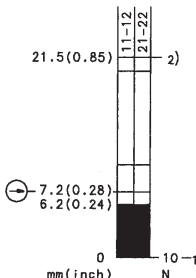
BG, UL, CSA
0.11 kg/0.24 lb
●/-

BG, UL, CSA
0.13 kg/0.29 lb
●/-

BG, UL, CSA
0.13 kg/0.29 lb
●/-

All dimensions in mm (inch)



SK-UV15Z M	SK-UV16Z M	SK-A2Z M
601.6169.026	601.6169.027	601.6169.036
		
●/-	●/-	●/-
iV	iV	iV
		
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

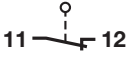
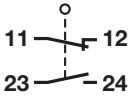
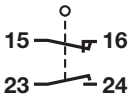
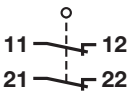
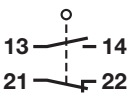
SKC/SK

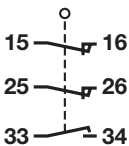
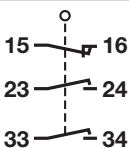
Safety switch
DIN EN 60947-5-1

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

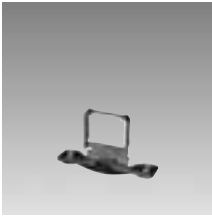
Approvals

- UL, CSA
- BG

Standard models	Actuator	Contact diagram
Single & double poles		
SKC-A1Z	10N	
SKC-A1Z F30	30N	
SKC-A1Z Fi100	100N	
SK-U1Z	10N	
SK-U1Z F30	30N	
SK-U1Z Fi100	100N	
SK-UV1Z	10N	
SK-UV1Z F30	30N	
SK-UV1Z Fi100	100N	
SK-A2Z	10N	
SK-A2Z F30	30N	
SK-A2Z Fi100	100N	
SK-SU1Z	10N	
SK-SU1Z F30	30N	
SK-SU1Z Fi100	100N	

Standard models	Actuator	Contact diagram
Three poles		
SK-UV15Z	10N	
SK-UV15Z F30	30N	
SK-UV15Z Fi100	100N	
SK-UV16Z	10N	
SK-UV16Z F30	30N	
SK-UV16Z Fi100	100N	

○ Technically possible (on request)
– Not available



Actuator M

- Metal
- Stainless steel



Actuator P

- Thermoplastic
- Polyamide

Part number	Part number
Designation	Designation
601.6169.039	601.6169.054
SKC-A1Z M	SKC-A1Z P
○	○
601.6169.003	–
SKC-A1Z Fi100 M	
601.6119.016	601.6119.035
SK-U1Z M	SK-U1Z P
611.6119.109	○
SK-U1Z F30 M	
601.6119.001	–
SK-U1Z Fi100 M	
601.6139.034	○
SK-UV1Z M	○
○	○
○	–
601.6169.036	○
SK-A2Z M	
601.6169.053	○
SK-A2Z F30 M	
601.6169.024	–
SK-A2Z Fi100 M	
○	○
○	○
○	–

Part number	Part number
Designation	Designation
601.6169.026	○
SK-UV15Z M	
601.6169.061	○
SK-UV15Z F30 M	
601.6169.025	–
SK-UV15Z Fi100 M	
601.6169.027	○
SK-UV16Z M	
○	○
○	–



Actuator F

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



Actuator MRU

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

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
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐
☐	☐

Technical data Standard models single & double poles

Insulation voltage:
 $U_i = 500 \text{ V}$

Thermal constant current:
 $I_{th} = 10 \text{ A}$

Switching frequency:
Max. 30/min.

Mechanical life:
 1×10^6 cycles

Operating temperature:
 $-30 \text{ }^\circ\text{C}/+80 \text{ }^\circ\text{C}$
 $-22 \text{ }^\circ\text{F}/+176 \text{ }^\circ\text{F}$

Weight:
0.13 kg/0.29 lbs

Technical data Standard models three poles

Insulation voltage:
 $U_i = 400 \text{ V}$

Thermal constant current:
 $I_{th} = 6 \text{ A}$

Switching frequency:
Max. 30/min.

Mechanical life:
 1×10^6 cycles

Operating temperature:
 $-30 \text{ }^\circ\text{C}/+80 \text{ }^\circ\text{C}$
 $-22 \text{ }^\circ\text{F}/+176 \text{ }^\circ\text{F}$

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.

Mouser Electronics

Authorized Distributor

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[601.6169.087](#) [601.6169.027](#)