

# Standard Rope Pull Switches

## With and Without Latching Function



SEK



SEM2



SIEM2



SD



SID



SID



SIN



SGC



SI88

Because of their specifications governed by corresponding standards (see Cable Safety Pull Switches SRM/SR), these cable pull switches are used exclusively as command devices.

These switches are available in metal enclosures as well as in insulation-enclosed versions. They are operated manually by pulling on the attached cable.

Thanks to their pretension, these switches, which feature a switching contact with overlap, execute a switching function when the cable is pulled or in the event of cable breakage.

**The field of application for these rope pull switches includes**

- Opening and closing of (garage) doors
- Starting machines
- Issuing commands in production processes

The basic design of the standard rope pull switches is based on that of position switches.

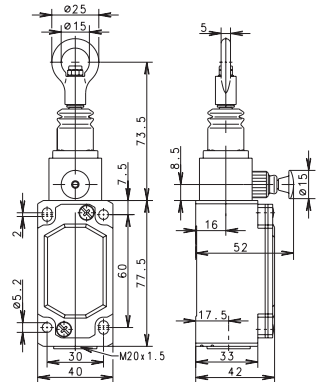
The specified cable length refers to the maximum length at minimum temperature variation. The maximum cable length may decrease under different environmental conditions.

Technical data		SEK	SiEK	SEM2	SiEM2
<b>Electrical data</b>					
Rated insulation voltage $U_i$		400 V AC	400 V AC	400 V AC	400 V AC
Rated operating voltage $U_e$		240 V	240 V	240 V	240 V
Conventional thermal current $I_{the}$		10 A	10 A	10 A	10 A
Utilisation category $U_e/I_e$		AC-15, $U_e/I_e$ 240 V / 3 A	AC-15, $U_e/I_e$ 240 V / 3 A	AC-15, $U_e/I_e$ 240 V / 3 A	AC-15, $U_e/I_e$ 240 V / 3 A
<b>Mechanical data</b>					
Switching frequency max.		≤ 50/min.	max. 100/min.	max. 50/min.	max. 50/min.
Mechanical service life B10d		1 x 10 <sup>6</sup> switching cycles on request	1 x 10 <sup>6</sup> switching cycles on request	1 x 10 <sup>6</sup> switching cycles on request	1 x 10 <sup>6</sup> switching cycles on request
Short-circuit protection		Fuse 10 A gL/gG	Fuse 10 A gL/gG	Fuse 10 A gL/gG	Fuse 10 A gL/gG
Protection class		II, Insulated	II, Insulated	I	I
Ambient temperature		-30°C to +80°C	-30°C to +80°C	-30°C to +80°C	-30°C to +80°C
Protection class		IP 65 conforming to IEC/EN 60529	IP 65 conforming to EN 60529	IP 65 conforming to EN 60529	IP 65 conforming to EN 60529; DIN VDE 0470 T1
Type of connection		4 Screw connections (M3, 5)	4 Screw connections (M3, 5)	4 Screw connections (M3, 5)	Screw connections
Conductor cross sections		Single-wire 0.5 – 1.5 mm <sup>2</sup> or Stranded wire with ferrule 0.5 – 1.5 mm <sup>2</sup>	Single-wire 0.5 – 1.5 mm <sup>2</sup> or Stranded wire with ferrule 0.5 – 1.5 mm <sup>2</sup>	Single-wire 0.5 – 1.5 mm <sup>2</sup> or Stranded wire with ferrule 0.5 – 1.5 mm <sup>2</sup>	Single-wire 0.5 – 1.5 mm <sup>2</sup> or Stranded wire with ferrule 0.5 – 1.5 mm <sup>2</sup>
Enclosure		Thermoplastic, glass fibre-reinforced	Thermoplastic, glass fibre-reinforced	Aluminium pressure die-casting	Aluminium pressure die-casting
Cable entry		1 x M20 x 1.5	1 x M20 x 1.5	1 x M20 x 1.5	1 x M20 x 1.5
<b>Standards</b>					
VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1					

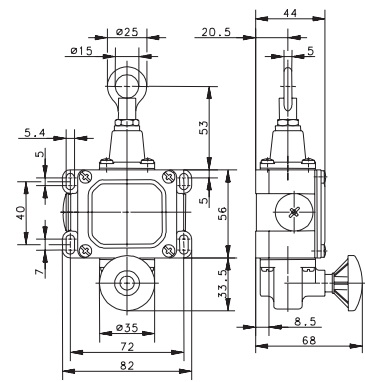
Technical data		SD	SiD	SIN	SGC	Si88
<b>Electrical data</b>						
Rated insulation voltage $U_i$		400 V AC	400 V AC	400 V AC	400 V AC	250 V AC
Rated operating voltage $U_e$		240 V	240 V	240 V	240 V	240 V
Conventional thermal current $I_{the}$		16 A	16 A	10 A	10 A	10 A
Utilisation category $U_e/I_e$		AC-15, $U_e/I_e$ 240 V / 3 A	AC-15, $U_e/I_e$ 240 V / 3 A	AC-15, $U_e/I_e$ 240 V / 3 A	AC-15, $U_e/I_e$ 240 V / 3 A	AC-15, $U_e/I_e$ 240 V / 3 A
<b>Mechanical data</b>						
Switching frequency max.		≤ 20/min.	max. 20/min.	≤ 20/min.	≤ 20/min.	≤ 50/min.
Mechanical service life B10d		1 x 10 <sup>6</sup> switching cycles on request	1 x 10 <sup>6</sup> switching cycles on request	1 x 10 <sup>6</sup> switching cycles on request	1 x 10 <sup>6</sup> switching cycles on request	1 x 10 <sup>6</sup> switching cycles on request
Short-circuit protection		Fuse 10 A gL/gG	Fuse 10 A gL/gG	Fuse 10 A gL/gG	Fuse 10 A gL/gG	Fuse 10 A gL/gG
Protection class		I	I	I	I	I
Ambient temperature		-30°C to +80°C	-30°C to +80°C	-30°C to +80°C	-30°C to +80°C	-30°C to +80°C
Protection class		IP65 conforming to EN 60529	IP65 conforming to EN 60529	IP65 conforming to EN 60529	IP 65 conforming to EN 60529	IP 65 conforming to EN 60529
Type of connection		Screw connections	Screw connections	Screw connections	Screw connections	Screw connections
Conductor cross sections		Single-wire 0.5 – 1.5 mm <sup>2</sup> or Stranded wire with ferrule 0.5 – 1.5 mm <sup>2</sup>	Single-wire 0.5 – 1.5 mm <sup>2</sup> or Stranded wire with ferrule 0.5 – 1.5 mm <sup>2</sup>	Single-wire 0.5 – 1.5 mm <sup>2</sup> or Stranded wire with ferrule 0.5 – 1.5 mm <sup>2</sup>	Single-wire 0.5 – 1.5 mm <sup>2</sup> or Stranded wire with ferrule 0.5 – 1.5 mm <sup>2</sup>	Single-wire 0.5 – 1.5 mm <sup>2</sup> or Stranded wire with ferrule 0.5 – 1.5 mm <sup>2</sup>
Enclosure		Aluminium pressure die-casting	Aluminium pressure die-casting	Aluminium pressure die-casting	Aluminium pressure die-casting	Thermoplastic, glass fibre-reinforced
Cable entry		2 x M20 x 1.5	2 x M20 x 1.5	2 x M20 x 1.5	1 x M20 x 1,5	1 x M20 x 1,5
<b>Standards</b>						
VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1						

# Standard Rope Pull Switches

## SIEM2 RAST



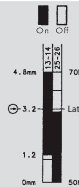
## SID RAST



Variant 1

**Article No.**  
Designation  
Max. span

**6012831023**  
SIEM2-UV1Z P-RAST  
6 m



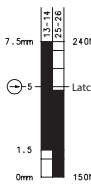
**6011411868**  
SD-U1 P-RAST  
8 m



Variant 2

**Article No.**  
Designation  
Max. span

**6111431060**  
SID-UV1Z P-RAST  
15 m



Variant 3

**Article No.**  
Designation  
Max. span

**6011431869**  
SID-UV1Z P-RAST  
12 m



### Technical data

Rated insulation voltage  $U_i$  max.

400 V AC

400 V AC

Rated operating voltage  $U_e$  max

240 V

240 V

Conventional thermal current  $I_{thc}$

10 A

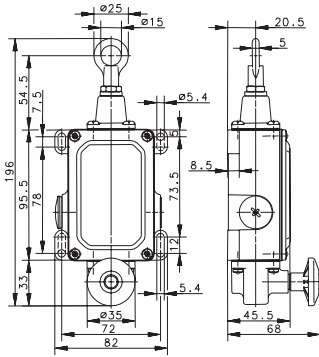
16 A

Utilisation category  $U_e/I_e$

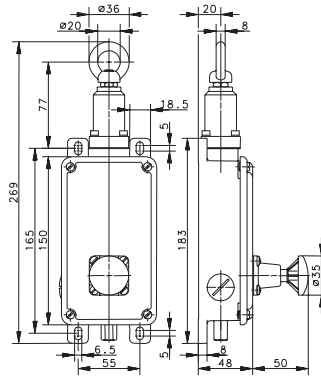
AC-15, 240 V/3 A

AC-15, 240 V/3 A

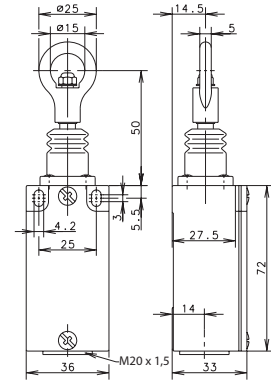
**SID RAST**



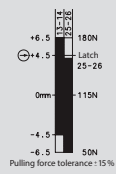
**SIN RAST**



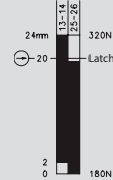
**SGC**



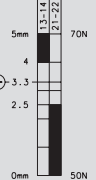
**6112431050**  
SID-UV1Z P-RAST  
35 m



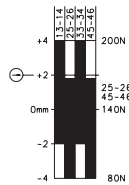
**6013531367**  
SIN-UV1Z P-RAST  
60 m



**6011211908**  
SGC-U1Z  
4 m



**6012441907**  
SID-UV2Z P-RAST  
18 m



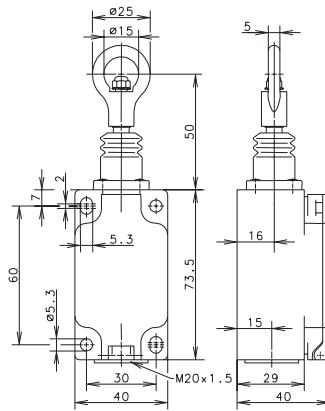
400 V AC  
240 V  
16 A  
AC-15, 240 V/3 A

400 V AC  
240 V  
10 A  
AC-15, 240 V/3 A

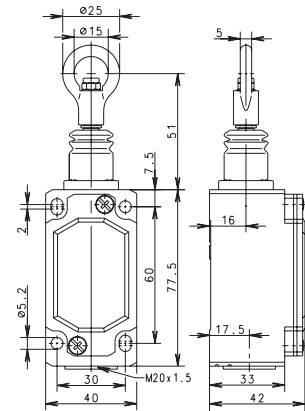
400 V AC  
240 V  
10 A  
AC-15, 240 V/3 A

# Standard Rope Pull Switches

## SEK/SIEK



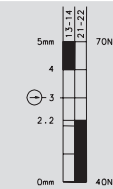
## SEM/SIEM2



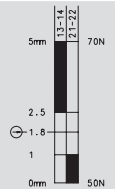
### Variant 1

**Article No.**  
Designation  
Max. span

**6011811133**  
SEK-U1Z  
6 m



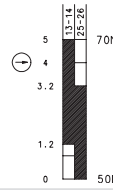
**6012811029**  
SEM2-U1Z  
6 m



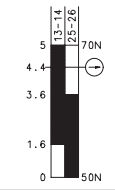
### Variant 2

**Article No.**  
Designation  
Max. span

**6011831134**  
SIEK-UV1Z  
4 m



**6012831022**  
SIEM2-UV1Z  
6 m



### Variant 3

**Article No.**  
Designation  
Max. span

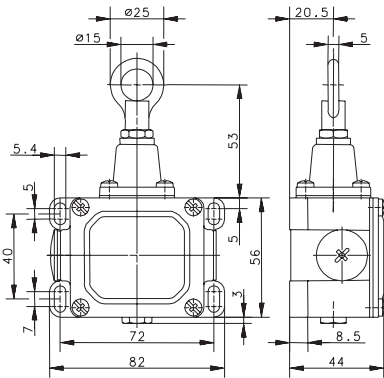
### Technical data

Rated insulation voltage  $U_i$  max.  
Rated operating voltage  $U_e$  max  
Conventional thermal current  $I_{th}$   
Utilisation category  $U_e/I_e$

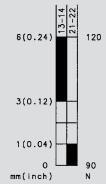
400 V AC  
240 V  
10 A  
AC-15, 240 V/3 A

400 V AC  
240 V  
10 A  
AC-15, 240 V/3 A

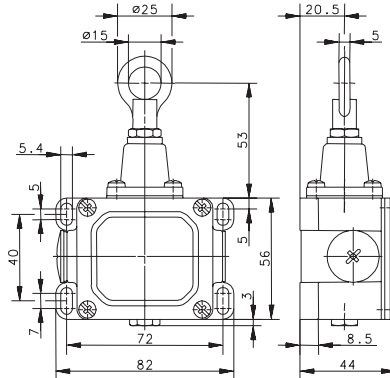
SD



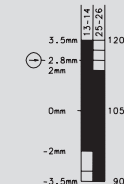
**6011411856**  
SD-U1  
8 m



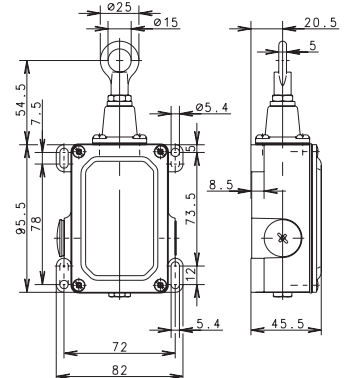
SID



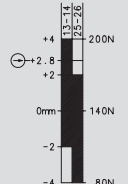
**6011431857**  
SID-UV1Z  
4 m



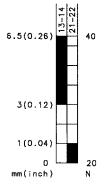
SID



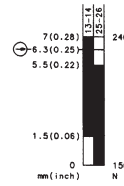
**6012431877**  
SID-UV1  
8 m



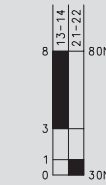
**6111411029**  
SD-U1  
6 m



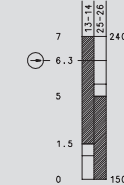
**6111431022**  
SID-UV1Z  
8 m



**6111411161**  
SD-U1  
6 m



**6111431069**  
SID-UV1Z  
12 m



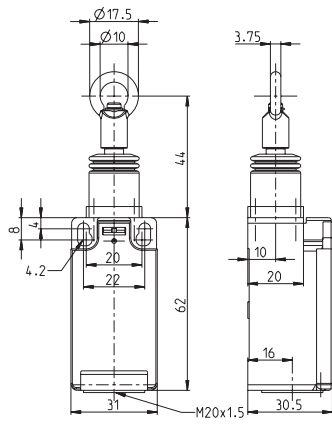
500 V AC  
240 V  
16 A  
AC-15, 240 V/3 A

400 V AC  
240 V  
16 A  
AC-15, 240 V/3 A

500 V AC  
240 V  
16 A  
AC-15, 240 V/3 A

# Standard Rope Pull Switches

SI88



Variant 1

**Article No.**  
Designation  
Max. span

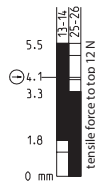
**6013811107**  
SI88-U1Z  
2 m



Variant 2

**Article No.**  
Designation  
Max. span

**6013831108**  
SI88-UV1Z  
2 m



## Technical data

Rated insulation voltage $U_i$ max.	250 V AC
Rated operating voltage $U_e$ max	240 V
Conventional thermal current $I_{thc}$	10 A
Utilisation category $U_e/I_e$	AC-15, 240 V/3 A