

With and Without Latching Function



SEK



SEM2



SIEM2



SD



SID



SID



SIN

Because of their specifications and the safety standards for application (see Cable Safety Pull Switches SRM/SR), these cable pull switches are used generally as safety command devices; switching control signals instead of the power directly.

These switches are available with metal and plastic bodies. They are operated manually by 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.

Switches with tension monitor require per-tension to the cable for the normally closed contact to close.

The field of application for these cable pull switches includes

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

The basic design of the standard cable pull switches is similar to 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

Technical data	SEK	SiEK	SEM2	SiEM2
Electrical data				
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
Utilization 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
Mechanical data				
Switching frequency max.	≤ 50/min.	max. 100/min.	max. 50/min.	max. 50/min.
Mechanical service life	1 x 10 ⁶ switching cycles	1 x 10 ⁶ switching cycles	1 x 10 ⁶ switching cycles	1 x 10 ⁶ switching cycles
B10d	on request	on request	on request	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	IP65 conforming to IEC/EN 60529	IP65 conforming to EN 60529	IP65 conforming to EN 60529	IP65 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 ² or Stranded wire with ferrule 0.5 - 1.5 mm ²	Single-wire 0.5 - 1.5 mm ² or Stranded wire with ferrule 0.5 - 1.5 mm ²	Single-wire 0.5 - 1.5 mm ² or Stranded wire with ferrule 0.5 - 1.5 mm ²	Single-wire 0.5 - 1.5 mm ² or Stranded wire with ferrule 0.5 - 1.5 mm ²
Enclosure	Thermoplastic, glass fibre-reinforced	Thermoplastic, glass fibre-reinforced	Aluminum pressure die-casting	Aluminum 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
Standards				
VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1				

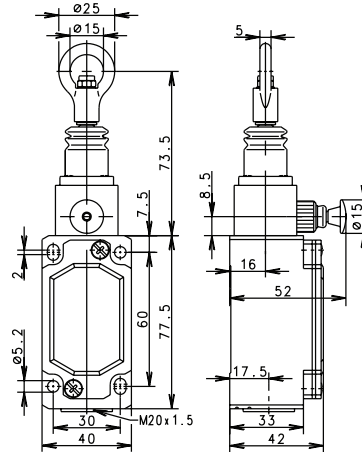
Technical data	SD	SiD	SIN
Electrical data			
Rated insulation voltage U_i	400 V AC	400 V AC	400 V AC
Rated operating voltage U_e	240 V	240 V	240 V
Conventional thermal current I_{the}	16 A	16 A	10 A
Utilization category U_e/I_e	AC-15, U_e/I_e 240 V / 3 A	AC-15, U_e/I_e 240 V / 3 A	AC-15, U_e/I_e 240 V / 3 A
Mechanical data			
Switching frequency max.	≤ 20/min.	max. 20/min.	≤ 20/min.
Mechanical service life	1 x 10 ⁶ switching cycles	1 x 10 ⁶ switching cycles	1 x 10 ⁶ switching cycles
B10d	on request	on request	on request
Short-circuit protection	Fuse 10 A gL/gG	Fuse 10 A gL/gG	Fuse 10 A gL/gG
Protection class	I	I	I
Ambient temperature	-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
Type of connection	Screw connections	Screw connections	Screw connections
Conductor cross sections	Single-wire 0.5 - 1.5 mm ² or Stranded wire with ferrule 0.5 - 1.5 mm ²	Single-wire 0.5 - 1.5 mm ² or Stranded wire with ferrule 0.5 - 1.5 mm ²	Single-wire 0.5 - 1.5 mm ² or Stranded wire with ferrule 0.5 - 1.5 mm ²
Enclosure	Aluminum pressure die-casting	Aluminum pressure die-casting	Aluminum pressure die-casting
Cable entry	2 x M20 x 1.5	2 x M20 x 1.5	2 x M20 x 1.5
Standards			
VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1			

SIEM and SID Latching with Reset Button

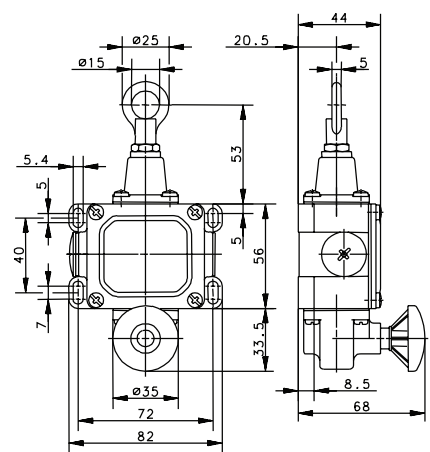


Pull Cable to change contact state, push button to reset

SIEM2 RAST



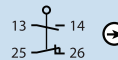
SID RAST



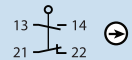
Variant 1

Article No.
Designation
Max. span
Type

601.2831.023
SIEM2-UV1Z P-RAST
19.6 Ft. (6 Meters)
Metal Body with
Tension Monitor



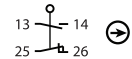
601.1411.868
SD-U1 P-RAST
26.2 Ft. (8 Meters)
Metal Body without
Tension Monitor



Variant 2

Article No.
Designation
Max. span
Type

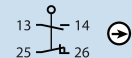
611.1431.060
SID-UV1Z P-RAST
49.2 Ft. (15 Meters)
Metal Body with
Tension Monitor



Variant 3

Article No.
Designation
Max. span
Type

601.1431.869
SID-UV1Z P-RAST
39.4 Ft. (12 Meters)
Metal Body with
Tension Monitor



Technical Information

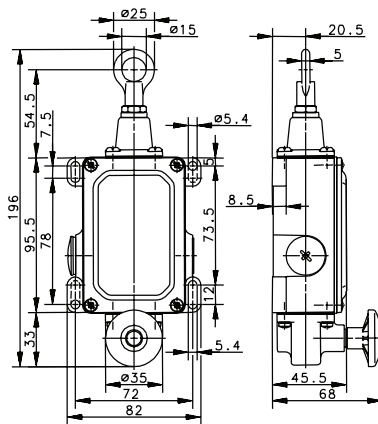
Maximum Switching Voltage	240V	240V
Maximum Switching Amperage	10A	16A
B10d	On Request	On Request
Mechanical Service Life	1 x 10 ⁶	1 x 10 ⁶
Switching Frequency	≤ 50/min	≤ 20/min
Operating Temperature	-30 °C to +80 °C	-30 °C to +80 °C
Protection Rating	IP65	IP65
Utilization Category	AC-15, U _e /I _e 240 V / 3 A	AC-15, U _e /I _e 240 V / 3 A
Rate Insulation Voltage	400VAC	400VAC
Approvals		

SID and SIN Latching with Reset Button

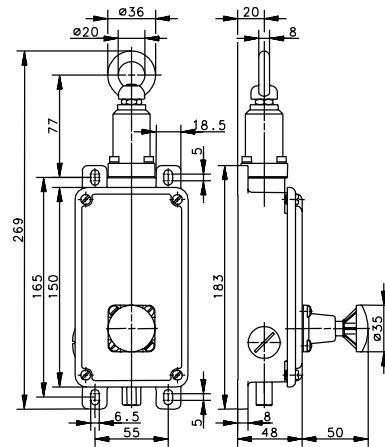


Pull Cable to change contact state, push button to reset

SID RAST



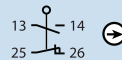
SIN RAST



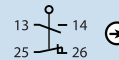
Variant 1

Article No.
Designation
Max. span
Type

611.2431.050
SID-UV1Z P-RAST
144.8 Ft. (35 Meters)
Metal Body with
Tension Monitor



601.3531.367
SIN-UV1Z P-RAST
196.8 Ft. (60 Meters)
Metal Body with
Tension Monitor



Variant 2

Article No.
Designation
Max. span
Type

601.2441.907
SID-UV2Z P-RAST
59 Ft. (18 Meters)
Metal Body with
Tension Monitor



Variant 3

Article No.
Designation
Max. span
Type

Technical Information

Maximum Switching Voltage	240V	240V
Maximum Switching Amperage	16A	10A
B10d	On Request	On Request
Mechanical Service Life	1 x 10 ⁶	1 x 10 ⁶
Switching Frequency	≤ 20/min	≤ 20/min
Operating Temperature	-30 °C to +80 °C	-30 °C to +80 °C
Protection Rating	IP65	IP65
Utilization Category	AC-15, U _e / I _e 240 V / 3 A	AC-15, U _e / I _e 240 V / 3 A
Rate Insulation Voltage	400VAC	400VAC
Approvals		

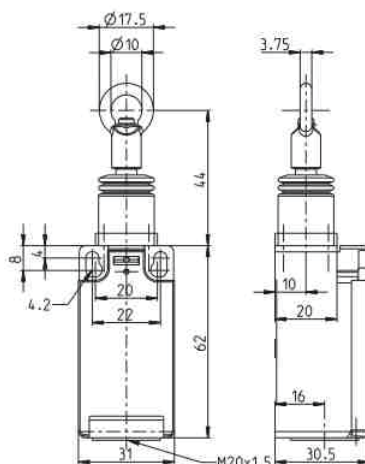
Drawing dimensions in mm

New SI88 Small Cable Pull Switch

SEK / SIEK



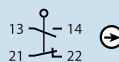
Pull Cable to change
contact state, release
cable to reset



Variant 1

Article No.
Designation
Max. span
Type

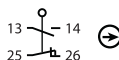
601.3811.107
SI88-U1Z
6.5 Ft. (2 Meters)
Plastic Body without
Tension Monitor



Variant 2

Article No.
Designation
Max. span
Type

601.3831.108
SI88-UV1Z
6.5 Ft. (2 Meters)
Plastic Body without
Tension Monitor



Variant 3

Article No.
Designation
Max. span
Type

Technical Information

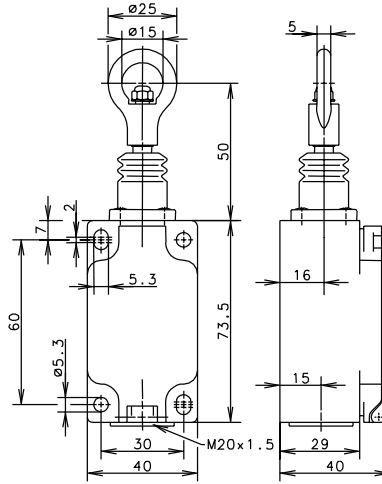
Maximum Switching Voltage	240V
Maximum Switching Amperage	10A
B10d	On Request
Mechanical Service Life	1 x 10 ⁶
Switching Frequency	≤ 50/min
Operating Temperature	-30 °C to +80 °C
Protection Rating	IP65
Utilization Category	AC-15, U _e /I _e 240 V / 3 A
Rate Insulation Voltage	250VAC
Approvals	

SEK, SIEK, SEM2 and SIEM2 Series

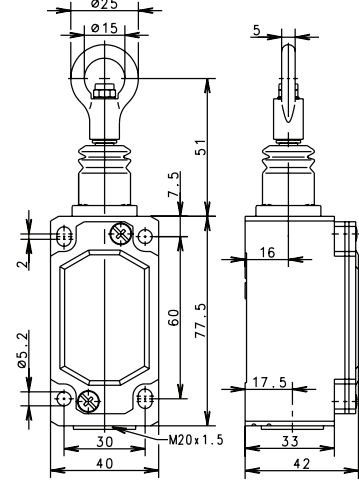


Pull Cable to change contact state, release cable to reset

SEK / SIEK



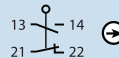
SEM / SIEM2



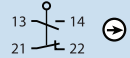
Variant 1

Article No.
Designation
Max. span
Type

601.1811.133
SEK-U1Z
19.6 Ft. (6 Meters)
Plastic Body without
Tension Monitor



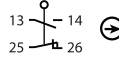
601.2811.029
SEM2-U1Z
19.6 Ft. (6 Meters)
Metal Body without
Tension Monitor



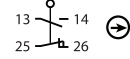
Variant 2

Article No.
Designation
Max. span
Type

601.1831.134
SIEK-UV1Z
13 Ft. (4 Meters)
Plastic Body with
Tension Monitor



601.2831.022
SIEM2-UV1Z
19.6 Ft. (6 Meters)
Metal Body with
Tension Monitor



Variant 3

Article No.
Designation
Max. span
Type

Technical Information

Maximum Switching Voltage	240V
Maximum Switching Amperage	10A
B10d	On Request
Mechanical Service Life	1 x 10 ⁶
Switching Frequency	≤ 50/min
Operating Temperature	-30 °C to +80 °C
Protection Rating	IP65
Utilization Category	AC-15, U _e /I _e 240 V / 3 A
Rate Insulation Voltage	400VAC
Approvals	SP C US

Maximum Switching Voltage	240V
Maximum Switching Amperage	16A
B10d	On Request
Mechanical Service Life	1 x 10 ⁶
Switching Frequency	≤ 20/min
Operating Temperature	-30 °C to +80 °C
Protection Rating	IP65
Utilization Category	AC-15, U _e /I _e 240 V / 3 A
Rate Insulation Voltage	400VAC
Approvals	SP C US

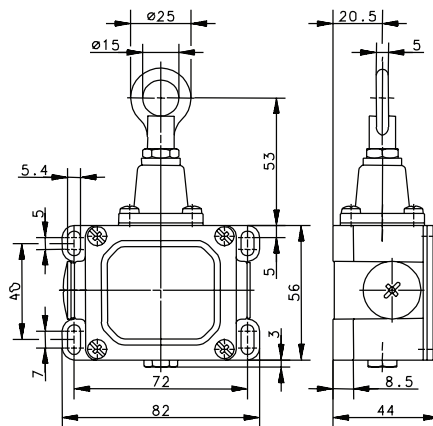
Maximum Switching Voltage	240V
Maximum Switching Amperage	16A
B10d	On Request
Mechanical Service Life	1 x 10 ⁶
Switching Frequency	≤ 20/min
Operating Temperature	-30 °C to +80 °C
Protection Rating	IP65
Utilization Category	AC-15, U _e /I _e 240 V / 3 A
Rate Insulation Voltage	400VAC
Approvals	SP C US

SD and SID Series

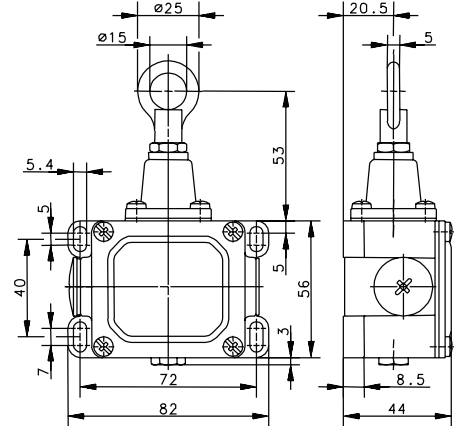


Pull Cable to change contact state, release cable to reset

SD



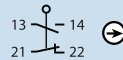
SID



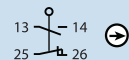
Variant 1

Article No.
Designation
Max. span
Type

601.1411.856
SD-U1
26.2 Ft. (8 Meters)
Metal Body without
Tension Monitor



601.1431.857
SID-UV1Z
13.1 Ft. (4 Meters)
Metal Body with
Tension Monitor



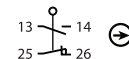
Variant 2

Article No.
Designation
Max. span
Type

611.1411.029
SD-U1
19.7 Ft. (6 Meters)
Metal Body without
Tension Monitor



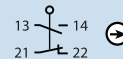
611.1431.022
SID-UV1Z
26.2 Ft. (8 Meters)
Metal Body with
Tension Monitor



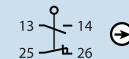
Variant 3

Article No.
Designation
Max. span
Type

611.1411.161
SD-U1
19.7 Ft. (6 Meters)
Metal Body without
Tension Monitor



611.1431.069
SID-UV1Z
39.4 Ft. (12 Meters)
Metal Body with
Tension Monitor



Technical Information

Maximum Switching Voltage	240V	240V
Maximum Switching Amperage	16A	16A
B10d	On Request	On Request
Mechanical Service Life	1 x 10 ⁶	1 x 10 ⁶
Switching Frequency	≤ 20/min	max. 20/min
Operating Temperature	-30 °C to +80 °C	-30 °C to +80 °C
Protection Rating	IP65	IP65
Utilization Category	AC-15, U _e / I _e 240 V / 3 A	AC-15, U _e / I _e 240 V / 3 A
Rate Insulation Voltage	400VAC	400VAC
Approvals		

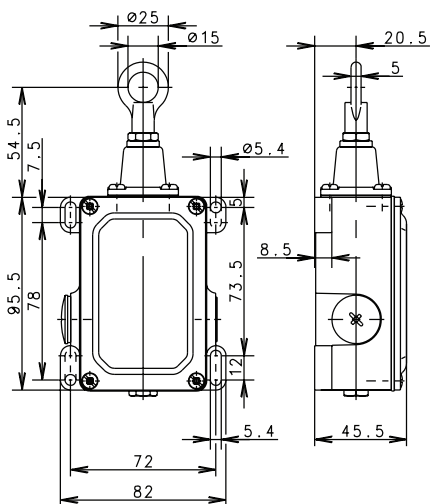
Drawing dimensions in mm

SID Series



Pull Cable to change
contact state, release
cable to reset

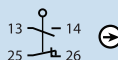
SID



Variant 1

Article No.
Designation
Max. span
Type

601.2431.877
SID-UV1
26.2 Ft. (8 Meters)
Metal Body with
Tension Monitor



Variant 2

Article No.
Designation
Max. span
Type

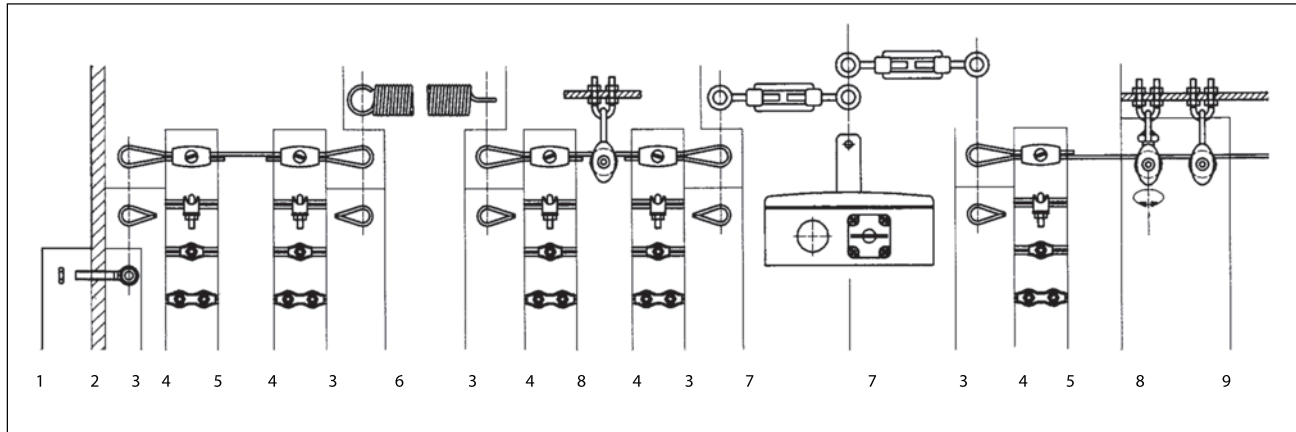
Variant 3

Article No.
Designation
Max. span
Type

Technical Information

Maximum Switching Voltage	240V
Maximum Switching Amperage	16A
B10d	On Request
Mechanical Service Life	1 x 10 ⁶
Switching Frequency	≤ 50/min
Operating Temperature	-30 °C to +80 °C
Protection Rating	IP65
Utilization Category	AC-15, U _e /I _e 240 V / 3 A
Rate Insulation Voltage	400VAC
Approvals	

Cable Clamps. Eye-bolts & Hardware



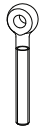
1 Nut



Size	Strength class	Art. No.
M 6 DIN 439T2	A2-70	260.0439.090
M 8 DIN 439T2	04	260.0439.187
M 10 DIN 934	8	260.0934.092

Coating: Thick-layer passivated (M 8/M 10), Ros-compliant

2 Eye bolt



Size	Strength class	Art. No.
M 10 x 50	4.6	260.0444.076
M 6 x 50	4.6	260.0444.185
M 8 x 50	4.6	260.0444.186

Coating: Thick-layer passivated, RoHs-compliant

3 Cable eye stiffener

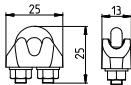


Size	Art. No.
D 2.5 to DIN 65457	269.6899.013
D 3 to DIN 65457	269.6899.014
D 4 to DIN 65457	269.6899.015
D 5 to DIN 6899B	269.6899.001

Material: Steel strip

Coating: Blue passivated, RoHs-compliant

4 Cable grip

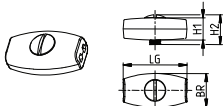


Size	Art. No.
D5	269.0741.002

Material: GTW/steel

Coating: Yellow chromed, RoHs-compliant

4 Cable grip, oval

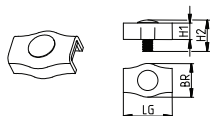


Size	LG	BR	H1	H2	Art. No.
2	28 mm	15 mm	11 mm	13 mm	269.0000.004
3	28 mm	15 mm	12 mm	13 mm	269.0000.005
4	34 mm	20 mm	14 mm	18 mm	269.0000.006

Material: Refined zinc cast alloy

Coating: Blue passivated, RoHs-compliant

4 Cable grip, simplex



Size	LG	BR	H1	H2	Art. No.
2	15 mm	12 mm	5 mm	11 mm	269.0000.007
3	17 mm	14 mm	6 mm	14 mm	269.0000.008
4	20 mm	17 mm	7 mm	16 mm	269.0000.009

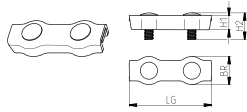
Material: Steel strip

Coating: Blue passivated, RoHs-compliant

Drawing dimensions in mm

Cable Clamps, Cable, Springs, Turnbuckles & Pulleys

4 Cable grip, duplex



Size	LG	BR	H1	H2	Art. No.
2	35 mm	12 mm	5 mm	11 mm	269.0000.010
3	35 mm	14 mm	6 mm	14 mm	269.0000.011
4	40 mm	17 mm	7 mm	16 mm	269.0000.012

Material: Steel strip

Coating: Blue passivated, RoHS-compliant

5 Cable

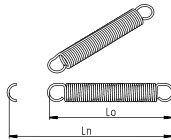


Cable Ø / Sheath Ø	Design	Minimum breaking strength	Art. No.
D 1,8/D 5	Similar to DIN 3055	275 kp	369.9100.008
D 2 / D 2.5	to DIN 3055	239 kp	369.9100.024
D 3/D 4	to DIN 3055	538 kp	369.9100.025
D 4/D 5	to DIN 3055	957 kp	369.9100.026

Material: Fiber-core galvanized, strength 1770 N/mm²

Coating: Blue passivated, RoHS-compliant

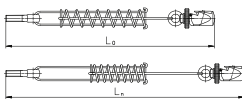
6 Compression spring, eye shape to DIN 1479



Fo	Fn	R	Lo	Ln	Art. No.
18 N	296 N	1.269 N/mm	188 mm	408 mm	365.2100.331
24 N	354 N	2.466 N/mm	180 mm	314 mm	365.2100.332
13.3 N	153 N	0.694 N/mm	185 mm	387 mm	365.2100.211
35.2 N	450 N	3.490 N/mm	201 mm	319 mm	365.2100.198

Material: Wire to DIN 2076 - 1.4310

7 Pull cable spring

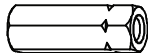


Fn	R	Lo	Ln	Art. No.
218 N	2.1 N/mm	383 mm	487 mm	391.1042.153
335 N	1.9 N/mm	483 mm	653 mm	391.1042.154

Material: Wire to DIN 2076 - 1.4310, cable grip - zinc pressure die-cast alloy, eye bolt to DIN 444 - 4.6

Coating: Thick-layer passivated (except spring), RoHS-compliant

7 Turnbuckle sleeve



Size	Art. No.
M 6	2601479188
M 8	2601479189

Material: Steel, min. tensile strength 330 N/mm²

Coating: Blue passivated, RoHS-compliant

7 Turnbuckle similar to DIN 1480 with two eyes

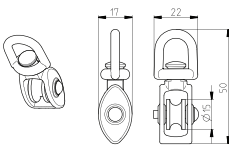


Open	Art. No.
M 5 x 50	260.1480.016
M 6 x 60	260.1480.017

Material: Steel, forged

Coating: Blue passivated, RoHS-compliant

8 Pulley block, swivel version

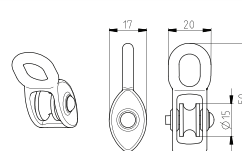


Art. No.
2690000023

Material: Zinc pressure die-cast alloy
(pulley polyamide)

Coating: Blue passivated, RoHS-compliant

8 Pulley block, fixed version



Art. No.
260.0000.022

Material: Zinc pressure die-cast alloy
(pulley polyamide)

Coating: Blue passivated, RoHS-compliant

9 Mounting bracket for pulley to DIN 1142

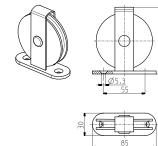


Art. No.
3911751437

Material: Steel

Coating: Blue passivated, RoHS-compliant

Deflection pulley Ø 75 mm for cable diameter up to 8 mm



Art. No.
269.0000.051

Material: Steel/polyamide

Coating: Blue passivated, RoHS-compliant